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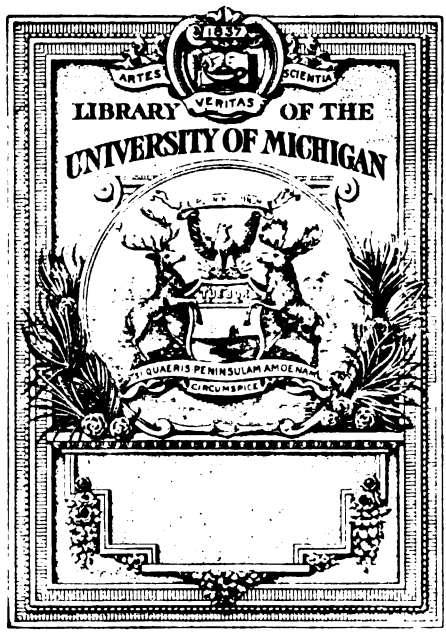
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1884.

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OF

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(4 F. H.) 175 High St.

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(8 S. C.) 106 High St.

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(56 N. C.) 1 Pearl St.

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RALPH GUERNSEY HIBBARD, M. A.,

INSTRUCTOR IN ELOCUTION.

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ALFRED CHARLES TRUE, M. A.,

INSTRUCTOR IN GREEK.

82 Church St.

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ELMER TRUESDELL MERRILL, B. A.,

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18 N. C.

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46 N. C.

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HENRY SEELY WHITE, B. A.,

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22 N. C.

EDWARD BURR VAN VLECK, B. A.,

ASSISTANT IN PHYSICS.

17 O. H.

ELBERT WILLIAM ROCKWOOD, B. S.,

ASSISTANT IN CHEMISTRY.

75 High St.

Students.

Graduate Students.

Names.	Residences.	Rooms.
John Andrew Tuck, B. A., MINERALOGY, PHYSICS AND BIOLOGY.	*Middletown.*	*121 William St.*
Edward Burr Van Vleck, B. A., MATHEMATICS AND PHYSICS.	*Middletown.*	17 O. H.
Carrie Matilda Hills, B. A., GREEK, ENGLISH LITERATURE AND BOTANY.	*Middletown.*	*5 Broad St.*

Senior Class.

Names.	Residences.	Rooms.
Stephen Spurgeon Abbott,	*Bethel, Me.*	45 N. C.
Edward Dally Bassett,	*Ansonia.*	A. Δ. Φ. *House.*
Frank Davis Beattys,	*Poughkeepsie, N. Y.*	42 N. C.
George Davis Beattys,	*Poughkeepsie, N. Y.*	42 N. C.
Francis Truman Chester,	*Springfield, Mass.*	8 N. C.
Ernest Perley Clarke,	*Sierra Madre, Cal.*	45 N. C.
Saul Ober Curtice,	*Concord, N. H.*	9 O. H.

NAMES.	RESIDENCES.	ROOMS.
‡James Franklin Fellows,	*Troy, N. Y.*	34 N. C.
William Scott Foster,	*N. Manchester.*	30 N. C.
‡Elijah Sheppard Gordy,	*Salisbury, Md.*	*98 College St.*
Addison Loomis Green,	*Westfield, Mass.*	38 N. C.
‡Irving Samuel Haynes,	*Saranac, N. Y.*	Δ. K. E. *House.*
Frank Leslie Hayward,	*Wesley, Me.*	*7 Wyllys Av.*
Homer Thomas Hollingshead,	*Newport, R. I.*	28 N. C.
James Strong Judd,	*Middletown.*	38 N. C.
Levi Oscar Kuhns,	*Brooklyn, N. Y.*	*8 Wyllys Av.*
Jacob Christian Lange,	*Scranton, Pa.*	37 N. C.
Louis Jones Magee,	*Malden, Mass.*	18 O. H.
William Howard Mitchell,	*N. Yarmouth, Me.*	10 O. H.
Robert Franklyn Norton,	*Brooklyn, N. Y.*	A. Δ. Φ. *House.*
Wilbur Everett Rowell,	*Merrimac, Mass.*	9 S. C.
Javan Mason Russell,	*Middletown.*	48 N. C.
James Alfred Saxe,	*Troy, N. Y.*	D O. H.
John Walter Saxe,	*Troy, N. Y.*	D O. H.
Jesse Francis Stevenson,	*Augusta, Ky.*	36 N. C.
Arthur Eugene Sutherland,	*Rochester, N. Y.*	42 N. C.
William John Taggart,	*Philadelphia, Pa.*	44 N. C.
DeWitt Burton Thompson,	*New York, N. Y.*	A. Δ. Φ. *House.*
John Littlefield Tilton,	*Nashua, N. H.*	28 N. C.
Frank Sumner Townsend,	*Middletown.*	*7 Wyllys Av.*
Frank Bourne Upham,	*Madison, N. J.*	18 O. H.
Charles Sumner Van Deusen,	*Middletown.*	*77 High St.*
†Edward Augustus Welch,	*Worcester, Mass.*	Δ. K. E. *House.*
Harvey Cromwell Williams,	*Everett, Pa.*	9 S. C.
Robert Henry Williams,	*Milton, Del.*	32 N. C.
Frederick Shenstone Woods,	*Springfield, Mass.*	38 N. C.
Winnie May Crook,	*Springfield, Mass.*	*135 High St.*
Catherine Amelia Gardner,	*Moodus.*	*81 William St.*
Ida Rachel Gridley,	*Canton Center.*	*135 High St.*
Flora Elizabeth McGlauflin,	*Presque Isle, Me.*	*39 Broad St.*
‡Bella Beeton Pullman,	*Brooklyn, N. Y.*	*135 High St.*
Eveline Lovancy Rolman,	*Narragansett Pier, R.I.*	*5 Wyllys Av.*

Junior Class.

Names.	Residences.	Rooms.
Everett Meacham Ball,	*Bellows Falls, Vt.*	A. Δ. Φ. *House.*
Edward Lynn Blaine,	*Seattle, W. T.*	Δ. K. E. *House.*
Charles Wesley Blakeslee,	*Newark, N. J.*	14 O. H.
George Copeland Boswell,	*Jersey City, N. J.*	14 O. H.
Frank Russ Bouton,	*New York, N. Y.*	X. Ψ. *House.*
William Brill,	*Shamokin, Pa.*	23 N. C.
Walter Perley Buck,	*Le Raysville, Pa.*	Δ. K. E. *House.*
Clinton DeWitt Burdick,	*Smyrna, N. Y.*	16 O. H.
¿George McKown Busey,	*Gerardstown, W. Va.*	*8 Wyllys Av.*
Arthur William Byrt,	*Middletown.*	11 N. C.
Acton Theophilus Civill,	*Coeymans, N. Y.*	11 O. H.
Henry Fitch Clark,	*New York, N. Y.*	Δ. K. E. *House.*
John Cheeseman Clark,	*Plattsburgh, N. Y.*	Ψ. Υ. *House.*
Julius Carl Converse,	*Stafford Springs.*	27 N. C.
Russell Hubert Croxford,	*E. Dixmont, Me.*	13 N. C.
Wilbur Fisk Dales,	*Bloomville, N. Y.*	17 O. H.
Michael Joseph Donahoe,	*Scranton, Pa.*	44 N. C.
Herbert Elmer Drake,	*Bristol, N. H.*	*11 Wyllys Av.*
Edgar Alfred Emens,	*Fayette, N. Y.*	A O. H.
William Barker Gwinnell,	*Newark, N. J.*	16 O. H.
¿Charles Warren Hawkins,	*Bayport, N. Y.*	X. Ψ. *House.*
George Fletcher Illman,	*Parryville, Pa.*	*114 High St.*
Howard Osman Lantz,	*York, Pa.*	11 S. C.
William Henry Lindemuth,	*Philadelphia, Pa.*	A. Δ. Φ. *House.*
¿Charles Wesley Lyon, Jun.,	*Torrington.*	A. Δ. Φ. *House.*
Winfield Scott Manship,	*Honeybrook, Pa.*	54 N. C.
Elmer Francis Marsh,	*Middletown.*	*5 Park St.*
John Henry Meyerhoff,	*Demarest, N. J.*	*8 Wyllys Av.*
John Calvin Packard,	*Bournedale, Mass.*	Ψ. Υ. *House.*
Harvey Hallett Paine,	*Centreville, Mass.*	10 O. H.
¿Herbert Eugene Peck,	*N. Chatham, N. Y.*	X. Ψ. *House.*

NAMES.	RESIDENCES.	ROOMS.
George Avery Rich,	*Attleborough, Mass.*	A O. H.
†Edward Bennett Rosa,	*Wellsville, N. Y.* Δ. K. E.	*House.*
Charles Scott, Jun.,	*Philadelphia, Pa.* A. Δ. Φ.	*House.*
Benjamin Franklin Sharpe,	*Philadelphia, Pa.*	9 O. H.
Jeremiah Malachy Sheehan,	*Hazardville.*	37 N. C.
Rollin Smith,	*Evans Mills, N. Y.* X. Ψ.	*House.*
Charles Edward Spaulding,	*Lowell, Mass.* X. Ψ.	*House.*
Charles Henry Stackpole,	*Auburn, Me.*	*7 Wyllys Av.*
Cyrus John Strong,	*Madison, N. J.*	*106 William St.*
Edward Cooke Strout,	*Livermore Falls, Me.*	48 N. C.
James Monroe Taber, Jun.,	*Vineyard Haven, Mass.*	54 N. C.
Howard Ridgway Vaughn,	*New Egypt, N. J.*	*7 Wyllys Av.*
George Phelps Wardell,	*New Britain.*	30 N. C.
Herbert Welch,	*New York, N. Y.*	*11 Wyllys Av.*
Frank Edwin Williams,	*Milton, Del.*	32 N. C.
William Henry Woodbury, Jun.,	*Stamford.*	*114 High St.*
Bertha Bass,	*Rochester, N. H.*	*120 High St.*
Helena Lovina Day,	*Waltham, Mass.*	*135 High St.*
Ruby Eliza Harding,	*S. Deerfield, Mass.*	*80 Church St.*
Lillie Blanche Mathewson,	*St. Johnsbury, Vt.*	*135 High St.*

Sophomore Class.

NAMES.	RESIDENCES.	ROOMS.
†Walter Russell Breed,	*Lynn, Mass.*	62 N. C.
William Lewis Brewster,	*New York, N. Y.* A. Δ. Φ.	*House.*
§Harry Breneman Bruner,	*Columbia, Pa.*	*108 William St.*
Buel Owen Campbell,	*St. Albans, Vt.* X. Ψ.	*House.*
Dwight Friend Carroll,	*Yalesville.*	19 N. C.
Wilson Browning Chandler,	*Windsor Locks.*	41 N. C.

NAMES.	RESIDENCES.	ROOMS.
Herbert Edgar Cobb,	*Searsmont, Me.*	35 N. C.
Jacob Augustus Cole,	*Tottenville, N. Y.* Δ. K. E. *House.*	
Henry Buckley Coons,	*Kingston, N. Y.*	35 N. C.
Rufus Thatcher Cooper,	*Middletown.*	*150 High St.*
‡Edward Everett Cornwall,	*Portland.*	53 N. C.
Jason Fremont Defandorf,	*Hyndsville, N. Y.*	33 N. C.
‡Edwin Fish,	*Trinidad, Col.*	13 N. C.
George Francis Flynn,	*E. Brookfield, Mass.*	16 N. C.
Edmund Richard Foley,	*Southington.*	*102 William St.*
Robert Lewis Gilbert,	*Derby.*	64 N. C.
Pedro Gillot y Fernandez,	*Gibara, Cuba.*	17 N. C.
‡Charles Minot Griffith,	*Perry, N. Y.*	17 N. C.
†Robert Elmer Hendershot,	*Middleville, N. J.*	*6 College Pl.*
‡Harold Charles Hutchison,	*Harrisburgh, Pa.*	*33 Church St.*
George Arthur Ingalls,	*Sandy Hill, N. Y.*	60 N. C.
Samuel Huckel Kirkpatrick,	*Philadelphia, Pa.*	61 N. C.
Joseph Ward Lewis,	*Gt. Barrington, Mass.*	31 N. C.
Frank Malvern McLaury,	*Bloomville, N. Y.* X. Ψ. *House.*	
John McMurray,	*Elizabeth, N. J.*	*14 Grand St.*
Elmer Frederic Newell,	*Moodus.*	29 N. C.
Edward Summerfield Ninde,	*Topeka, Kansas.*	*98 College St.*
†Charles Pomeroy Opdyke,	*Middletown.*	*6 College Place.*
Edward Evans Pixley,	*Leyden, Mass.*	14 N. C.
Ralph Hayward Pomeroy,	*Brooklyn, N. Y.*	33 N. C.
†William Trafton Randall,	*Middletown.*	*112 High St.*
Frank Henry Richmond,	*Ellenburgh, N. Y.*	14 N. C.
Herbert Dwight Rockwell,	*N. Adams, Mass.*	B O. H.
Joseph Chapin Rockwell,	*N. Adams, Mass.*	B O. H.
‡Odell Seymour Smith,	*New York, N. Y.* Α. Δ. Φ. *House.*	
‡David Holden Stafford,	*Brandon, Vt.*	60 N. C.
†Millard Fillmore Steelman,	*Atlantic City, N. J.*	*76 High St.*
James Madison Stevens,	*Chester, Pa.*	61 N. C.
Carlos Hotchkiss Storrs,	*Seymour.*	64 N. C.
‡Samuel Newton Taylor,	*Farmingdale, N. Y.* Α. Δ. Φ. *House.*	
Albert Welcome Thayer,	*E. Blackstone, Mass.* Δ. K. E. *House.*	
Calvin Spencer Videon,	*Windsor Locks.*	41 N. C.

NAMES.	RESIDENCES.	ROOMS.
Alfred E Warren,	*S. Schroon, N. Y.*	12 N. C.
George William Wood,	*Haddam.*	*112 High St.*
Wesley Ellsworth Woodruff,	*Wilkesbarre, Pa.*	52 N. C.
Robert Louis Zink,	*West Stratford.*	29 N. C.
‡Jessie Innes Inglis,	*Middletown.*	*120½ Main St.*
Katie Griffing Pike,	*Middletown.*	*10 College Place.*
Jennie Van Vleck,	*Middletown.*	*76 Church St.*

Freshman Class.

NAMES.	RESIDENCES.	ROOMS.
George Irving Abbott,	*Hermon, N. Y.*	55 N. C.
Frederic Gibbs Axtell,	*Vernon.*	51 N. C.
Harry Harvey Beattys,	*Poughkeepsie, N. Y.*	62 N. C.
†John Law Bridge,	*Hazardville.*	39 N. C.
William Evans Bruner,	*Columbia, Pa.*	*108 William St.*
William Lewis Bulkley,	*Greenville, S. C.*	39 N. C.
Edward Washington Burke,	*Harrington, Del.*	*8 Wyllys Av.*
Henry William Camier,	*Liverpool, England.*	6 N. C.
William Morton Cassidy,	*E. Boston, Mass.*	49 N. C.
†William Lawrence Clarke,	*New Castle, N. Y.*	10 S. C.
Charles Phillips Cooper,	*Auburn, N. Y.*	5 O. H.
Ernest Russell Deane,	*Edgartown, Mass.*	25 N. C.
‡Harvey William Fellows,	*Troy, N. Y.*	34 N. C.
William Elliott Foster,	*Middletown.*	*90 Court St.*
Leonard Everett Freeman,	*Spencer, Mass.*	16 N. C.
Frederic Dana Fuller,	*Boston, Mass.*	47 N. C.
William Clark Gordon,	*Oxford, Mass.*	49 N. C.
‡Henry Pinnie Griffin,	*Granby.*	5 O. H.
Roland Wilkins Guss,	*Philipsburg, Pa.*	25 N. C.
Morton Lee Hall,	*Bakersfield, Vt.*	*X. Y. House.*

NAMES.	RESIDENCES.	ROOMS.
George Dempster Hamlen,	*Central Falls, R. I. 5 Wyllys Av.*	
Frederic Hobart Lawrence Hammond,	*New Britain.*	10 N. C.
Howard Hornbeck Hawxhurst,	*New York, N. Y.*	10 S. C.
Fred Alexander Hillery,	*Washington, Vt.*	63 N. C.
Alvin Wesley Holt,	*Cromwell.*	*76 High St.*
Charles French Howland,	*Kent's Hill, Me.*	47 N. C.
Thomas Arthur Humason,	*New Britain.*	*19 Wyllys Av.*
Robert Seney Ingraham,	*Brooklyn, N. Y.*	*75 High St.*
Arthur Wilson James,	*E. Rush, Pa.*	C O. H.
William Avery Knox,	*Brewster, N. Y.*	51 N. C.
Harry Keiser Munroe,	*Hackettstown, N. J.*	12 S. C.
Thophilus England Niles,	*Palenville, N. Y.*	*108 William St.*
Edwin J Overfield,	*Bethlehem, Pa.*	59 N. C.
Gordon Brainerd Pike,	*Middletown.*	*10 College Place.*
‡Hubert Lowell Rich,	*Attleborough, Mass.*	A O. H.
Theodore Richards,	*Brooklyn, N. Y.*	50 N. C.
‡Frank Elwood Sanford,	*Edinburg, O.*	*6 College Place.*
Charles Wesley Smith,	*Evans Mills, N. Y.*	X. Ψ. *House.*
William Barnard Smith,	*Pearsall's, N. Y.*	10 N. C.
‡Charles Kendall Sturges,	*Whitehall, Ill.*	53 N. C.
†Fred Thomas Tateum,	*Worcester, Mass.*	50 N. C.
†Aaron Lewis Treadwell,	*Redding.*	59 N. C.
Willard Ellery Treat,	*E. Hartford.*	55 N. C.
Horace Kelley Vernon,	*Philadelphia, Pa.*	12 S. C.
Hubert Wetmore Wells,	*Louisville, Ky.*	11 S. C.
Thomas Dudley Wells,	*Belmont, N. H.*	63 N. C.
‡Harriette Emily Gaylord,	*E. Longmeadow, Mass.*	*135 High St*
‡Alice May Hotchkiss,	*Middletown.*	*29 Grand St.*
‡Mary Mendall,	*Brooklyn, N. Y.*	*135 High St.*
Kate Bertha Mitchell,	*Remsen, N. Y.*	*82 Church St.*
Clarita Maria Pratt,	*S. Abington, Mass.*	*135 High St.*

Special Students.

Names.	Residences.	Rooms.
John Alden Morse,	*Bath, Me.*	26 N. C.
Charles Horace Talmage,	*Middletown.*	*105 College St.*
Jordan Coveydogue Wells,	*Brooklyn, N. Y.*	*76 High St.*
Ralph McIntosh Wilcox,	*Portland.*	19 N. C.
Florence Mallalieu Lawton,	*Ware, Mass.*	*135 High St.*
Lillian Vernon,	*Rome, Italy.*	*175 High St.*

Summary.

Graduate Students,	3
Seniors,	42
Juniors,	51
Sophomores,	49
Freshmen,	51
Special Students,	6
Total,	202

Abbreviations.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
‡	Latin-Scientific Course.
†	Scientific Course.

General Statement.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three regular courses of study, extending through four years, and named the Classical, Latin-Scientific, and Scientific Courses.

The Classical Course comprises that range of studies which is usually included in the college curriculum. The other two courses are designed to secure to those whose circumstances or tastes prevent an extended study of the ancient languages, an opportunity to acquire a sound mental training and liberal culture, as well as a good preparation for advanced courses of scientific or technical study. In the Latin-Scientific Course the Greek, and in the Scientific Course, the Greek and the Latin, of the Classical Course are replaced by Modern Languages, Science and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above Courses, all of the studies of the first two years are required, except that the Classical Sophomores have the option between French and German, and the Latin-Scientific Sophomores, the option between Latin and Advanced French. In the last two years, from two-fifths to three-fourths are required, the student being allowed to complete his quota of work by selecting from a wide range of elective studies.

In the choice of these electives, the student is encouraged to exercise prudence and deliberation, and especially to regulate his choice so that his electives will together form a harmonious and consistent course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

The allotment of the subjects of study in the several Courses is set forth in the following schedules, in which the time devoted to all of the studies of each Course during the four years is taken at 100.

DISTRIBUTION OF REQUIRED AND ELECTIVE STUDIES IN THE CLASSICAL, LATIN-SCIENTIFIC, AND SCIENTIFIC COURSES.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Req'd.	Elect.	Req'd.	Elect.	Req'd.	Elect.
Ancient Languages,	21	19	6	12	—	—
Modern Languages,	4*	16	8	12	16	4
Rhetoric and English Literature,	4	12	4	12	4	12
Logic, Psychology, and Ethics,	7	8	7	8	7	8
History and Political and Social Science,	8	8	7	8	5	8
Mathematics,	12	4	12	4	4	4
Physics and Astronomy,	8	16	8	15	12	12
Chemistry,	3	12	3	12	7	12
Biology,	3	10	3	10	9	8
Geology, Mineralogy, and Physical Geography,	3	5	3	5	5	4
Total for each student in four years,	73*	27	61	39	69	31

*Option is allowed between French and German. If these should therefore be counted as elective, the amount of the required studies would become 69.

The numbers opposite each group of studies in the columns headed "Required" indicate the percentages which the required studies of that group form of the whole work of the several Courses. The same numbers for the electives indicate the amounts offered in the several departments. From these electives each student selects enough to make, with the required studies of his Course, his whole quota of 100.

The distribution of the required and elective work in each of the four years is shown on the next page.

PROPORTIONS OF REQUIRED AND ELECTIVE WORK FOR EACH YEAR IN EACH COURSE.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Req'd.	Elect.	Req'd.	Elect.	Req'd.	Elect.
Freshman year, - - -	25	None	25	None	25	None
Sophomore " - - -	21	4*	21	4†	25	None
Junior " - - -	13	12	6	19	10	15
Senior " - - -	10	15	9	16	9	16
Total, four years, - -	69	31	61	39	69	31

* Option between French and German, one of which is required. † Option between Latin and Advanced French.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

POST-GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue post-graduate courses of study in any of the departments.

Terms of Admission.

CLASSICAL COURSE.—Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN.—Candidates are examined in either of the following courses, according to their option :—

I. Cæsar, Gallic War, books I., II.; six books of Vergil's Æneid; Bucolics and Georgics; eight Orations of Cicero; translation into Latin of simple English sentences, and easy narrative based on the prose authors read; Latin Grammar, including Prosody,—Harkness, or Allen & Greenough.

II. Translation at sight of passages from Cæsar, Cicero's Orations, Vergil, and Ovid's Metamorphoses. Latin Prose Composition and Latin Grammar as in Course I.

GREEK.—Candidates are examined in either of the following courses, according to their option:—

I. Four books of Xenophon's Anabasis; three books of Homer's Iliad; Hadley's or Goodwin's Greek Grammar; simple sentences in Greek Prose Composition.

II. Translation at sight of average passages from Xenophon and from the Iliad (the candidate being supplied with a vocabulary of the less usual words).

HISTORY AND GEOGRAPHY.—History of Rome, to the death of Marcus Aurelius; History of Greece, to the death of Alexander; Ancient Geography. The amount of historical knowledge required for this examination may be obtained from the following books:—Smith's Smaller History of Greece; Leighton's History of Rome. Tozer's Primer of Ancient Geography is recommended as the basis for instruction in Ancient Geography, and familiarity with map-drawing is especially desirable.

MATHEMATICS.—Arithmetic, including the Metric System; Plane Geometry; Algebra, so much as is included in the first seven books of Newcomb's Algebra for Colleges, or in the first eighteen chapters of Loomis's Treatise on Algebra.

ENGLISH.—Each candidate will be required to write a short English composition, correct in punctuation, division into paragraphs, spelling, grammar, and expression, upon a subject announced at the time of the examination. One hour will be given to this exercise. In 1885, the subject will be taken from one of the following works:—Shakspere's Macbeth, and Merchant of Venice; first two books of Milton's Paradise Lost; Irving's Sketch-Book; George Eliot's Silas Marner; Dickens'

Tale of Two Cities; Emerson's Essay on Eloquence, in "Society and Solitude." In 1886, the subject will be taken from one of the following works:—Shakspere's Julius Cæsar, and Macbeth; first two books of Milton's Paradise Lost; Dickens' Tale of Two Cities; Scott's Abbot; Pope's Rape of the Lock; Lowell's Vision of Sir Launfal; Goldsmith's She Stoops to Conquer.

Each candidate will be required to criticise specimens of English given him at the time of the examination. Half an hour will be given to this exercise.

LATIN-SCIENTIFIC COURSE.—Candidates for the Latin-Scientific Course will be examined in all the above subjects, except Greek and History of Greece.

SCIENTIFIC COURSE.—Candidates for the Scientific Course will be examined in the following books and subjects:—

MATHEMATICS.—Arithmetic, including the Metric System; Algebra, so much as is included in Loomis's Treatise, through the General Theory of Equations; Chauvenet's Geometry, to Appendix I.; Wheeler's Plane and Spherical Trigonometry.

ENGLISH.—Same requirements as for Classical Course.

SPECIAL COURSES.—Special Students, not candidates for a degree, may be admitted upon passing such examination as the Faculty shall in each case prescribe.

No one can be admitted to the Freshman Class under the age of fifteen years, or to an advanced standing without a corresponding increase of age.

All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior Year.

A student who has accomplished half or more of the preparatory course, may be examined on that part, and receive credit therefor. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

The regular examination for admission is held on the Friday and Saturday of Commencement Week. All candidates must be present at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the Fall Term.

Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided that they make application to the President before June 1st. The time of these examinations will be Thursday and Friday of Commencement Week. But, if no applications are received before June 1st, these examinations will not be held.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

Departments of Instruction.

LATIN.

PROFESSOR HARRINGTON; MR. MERRILL.

The pronunciation used has been preferably the English; but of late the free use of the Roman has been allowed to those who used it in preparation. The leaning at present is toward the Roman, which will become the main one when it is demanded.

The authors read in the Freshman* year are, in the first term, Livy, and in the second and third, Horace. Exercises are held four times a week. The reading in Livy, for the current year, begins with the twenty-first book, and is conducted as an historical as well as a philological study. To this end, while attention is given to the peculiarities of Livy's style, and to the general theory of forms and syntax as illustrated in his writings, the students are also led to a somewhat critical study of his value as a historian, especially by comparison with Polybius, whose description of the second Punic war is read in translation. Sight reading is encouraged by precept and by practice in class, and a test of the student's ability in this direction is made a part of each examination.

The works of Horace are taken up in the general order of their composition, and are studied chiefly from a literary standpoint. The aim is to teach the student something of the characteristics of ancient lyric poetry, and especially to lead him to a sympathetic understanding of the spirit and inner life and character of the poet himself, and of the Romans of his age. Particular attention is also given to the structure and reading of the logaoedic rhythms.

* In these departmental statements the arrangement of studies by years is that of the Classical Course; variations from this arrangement in the other courses are shown by the tables on a following page.

Exercises in Roman history are held weekly throughout the year. For the present year a critical study is made of the early period as far as the capture of Rome by the Gauls. During the first part of the year Ihne's Early Rome is carefully read and discussed in connection with readings from other ancient and modern authorities. For the latter part of the year, several courses of reading, bearing on special topics of the early history, are laid out, of which each student pursues one, supplementing it from his own investigation, and finally submitting a written report to the instructor and class. A course of weekly readings in the early constitutional history of Rome is also open to those who desire it.

Exercises in Latin prose composition, consisting of the submission and criticism of connected passages previously prepared, varied by translations at sight, are held throughout the year.

In the Sophomore year the authors read at present are Plautus,—for the current year the Trinummus and the Captivi; Cicero,—for the current year the De Officiis; and Juvenal,—select satires. Other authors may be introduced in the place of these, but, like these, with a view to give the student as wide an acquaintance as possible with the Latinity of different periods, differences of style, and the development of the language. The selections from these authors vary according to circumstances. Lectures on Roman Antiquities, and on the style, characteristics, and literary merits of the different authors are frequently introduced. The required time for the Sophomore year is five hours a fortnight. Each author is read for about one term.

The Latin of the Junior and Senior years is elective. The time is five hours a fortnight. The Germania and the Agricola of Tacitus, the Institutes of Quintilian, Catullus, Pliny's Letters, and Suetonius are read in the Junior year. Tacitus is read eleven weeks, completing the books. Quintilian is read thirteen weeks. Catullus and Pliny, six weeks each. The class this year numbers sixteen.

Lucretius, Seneca, the Histories of Tacitus, or March's Latin Hymns are read in the Senior year. Lucretius' first book is read the present year, and various selections from the other

books, either as assigned lessons or at sight, fourteen weeks. Seneca is read thirteen and Tacitus ten weeks. Exercises in sight reading are conducted as far as possible, especially in the elective classes. For this purpose various authors are selected. The class numbers seven.

The design of the instruction given in the department is to develop in the student a critical knowledge of the Latin language, its structure, peculiarities, idioms, and philological connection with other languages; to secure a ready and accurate habit of translation into good English; to obtain as thorough a knowledge as possible of the literary history and peculiarities of different writers, the comparative style of different periods, authors, and forms of composition, and the arts, manners, civil and military institutions, religious and domestic life of the Romans; and to make the Latin contribute greatly to the mastery and command of the English language. To this end, lectures, collateral readings, and other exercises are combined with the regular work of the recitation room.

GREEK.

PROFESSOR VAN BENSCHOTEN; MR. TRUE.

REQUIRED COURSES.

FRESHMEN.—*Fall Term.*—Herodotus. Special attention to Etymology.

Winter Term.—Thucydides; Syntax, with Prose Composition based on narrative portions of the author read.

Spring Term.—Homer's Odyssey; Prosody; Lectures on Greek Life, with illustrations from original sources.

Throughout the year considerable time is given to sight-reading, and students are encouraged to read large amounts with as little use of lexicon and grammar as possible. In recitation, accuracy of translation and good English are required. Throughout the year Greek History is read outside the class-room, and the examinations in this subject are intended to test the ability of the student to read for information rather than for recitation.

Five hours a week. MR. TRUE.

SOPHOMORES.—*Fall Term.*—Aeschines and Demosthenes on the Crown. Lectures on Athenian Constitution and Politics, and the Greek Orators. The reading required includes Butcher's Demosthenes, and at least one oration of Burke and Cicero.

Winter Term.—Greek Drama: Aeschylus, Prometheus Bound; Sophocles, Oedipus Tyrannus. Lectures, with illustrations, on the Greek Theatre and its appointments. The reading includes a primer of Greek Literature and a play of Shakspere.

Spring Term.—Plato's Phaedo and Apology. Lectures on Greek Philosophy. Rapid translation, with attention to the style and thought of the author. The reading includes introductory chapters of Grote's Plato and a translation of Plato's Republic.

During Sophomore year the cultivation of the "sense of style" and the ability to appreciate Beauty in literature is especially aimed at.

Five hours a fortnight. MR. TRUE.

ELECTIVE COURSES.

JUNIORS.—I. Xenophon's Memorabilia, Plato's Republic, Greek Comedy, Pausanias and Strabo. Lectures on Topography, Geography, and Art. Comparative Grammar. This course is intended for those who desire a wider acquaintance with Greek literature and a more technical knowledge of Grammar and the details of interpretation.

Five hours a fortnight.

II. Greek Testament and Septuagint; Greek Fathers. This course provides an introduction to the critical study of New Testament Greek. Especial attention is given to methods of interpretation and to the history of the manuscripts.

Five hours a fortnight.

In the absence of Professor Van Benschoten, these Junior courses are omitted during 1884-5, but will be given during 1885-6.

SENIORS.—Greek Lyric Poetry: Buchholz's Anthology, including Pindar: Aristotle's Ethics. Lectures on Greek Metre,

Poetical Composition, the Philosophy of Plato and Aristotle. This course is intended for those who have already taken Junior I. The class this year numbers eight.

Five hours a fortnight. MR. TRUE.

MODERN LANGUAGES.

PROFESSOR PRENTICE.

Sophomores in the Classical Course are required to pursue one Modern Language, but allowed to choose either French or German as they prefer. The present year fifteen take French, and eighteen German. In the Latin-Scientific and Scientific Courses, French is required in the Freshman year, and German in the Sophomore year.

The work in German for Sophomore year will embrace the twenty lessons outlined in the preface of Whitney's German Grammar. Then will begin readings in Whitney's German Reader. With the readings will be assigned daily a part of the passages for translation into German of the second and third series in the supplement to the Grammar. Every sentence will be put upon the blackboard for criticism and correction. After the first examination, special attention will be given to gaining a mastery of the irregular verbs and the rules for the gender of the nouns.

The work in German for Junior year will cover Sesenheim in Hart's Goethe's Prosa, Schiller's Wilhelm Tell, Sachtleben's edition, Lessing's Minna von Barnhelm, Whitney's edition, and Goethe's Iphigenie auf Tauris, Carter's edition. In connection with this reading there will be systematic sight-readings from Stern's Select German Comedies. Grammatical work will be connected with the course of reading. Special attention will be paid to the sections of the grammar which treat of the construction and order of sentences and the Law of Progression of Mutes (from section 426 to 462).

The work for Sophomore year in French will embrace Part First of Otto's French Grammar. Then will begin readings in Voltaire's Louis XIV., edition of Masson and Prothero. In

connection with the readings, parts of Harrison's French Syntax will be assigned the class for study. Various exercises based on the readings will be given in each recitation.

The work for Junior year in French will include readings from Alliot and Boymier's Auteurs Contemporains, Molière's Le Misanthrope, Brette's edition, Corneille's Horace, D'Harleville's Vieux Célibataire, the Pitt Press edition, Sainte Beuve's M. Daru, the Pitt Press edition.

There will be sight-readings from Auteurs Contemporains, the College Series of French plays, or Knapp's French Readings.

The sections of Harrison's French Syntax that treat of negation, the uses and succession of the moods, and prosody will be carefully studied in connection with the readings.

Rhetoric and English Literature.

PROFESSOR WINCHESTER; MR. MEAD.

I. *Freshman Year.*—During the Freshman year the object of the instruction in this department is to give the class some knowledge of the outlines of the history of our language, and to awaken some interest in its study. To this end, a course of simple lectures is given in the fall term, recounting the main facts concerning the rise and early history of the language, and these lectures are accompanied and followed by recitations from the class upon Trench's "English Past and Present." The class meets for this exercise but once a week.

II. *Sophomore Year.*—The study assigned to the Sophomore year, in this department, is Rhetoric. The class meets on alternate days through half the year. The text-book used is A. S. Hill's Manual of Rhetoric. The study of the text-book, however, forms only a part of the work of the class. The members of the class are required to write occasional exercises illustrating and applying the principles laid down in the text-book; these principles are also applied in the public criticism of their regular essays, written once in three weeks; and, finally, they read, in connection with their rhetorical

study, two or three specimens of the best modern English prose, criticise and discuss them in the class, and compare them to discover the characteristic excellences and defects of each. The writings selected for such reading and criticism this year are Macaulay's Life of Johnson, Carlyle's Essay on Johnson, and Burke's speech on Conciliation with America. The essays of Macaulay and Carlyle are compared with respect to their diction, structure of sentence and paragraph, modes of illustration, and general method of treating the same subject. The speech of Burke is studied especially with reference to the rhetorical laws of argument and persuasion.

III. *Junior Year.*—The study of English Literature is optional during the Junior and Senior years. The Junior class, the present year—open, like all Junior elective classes, to Seniors as well as Juniors—contains 8 Seniors, 36 Juniors, and 4 Special Students. It meets on alternate days throughout the year. The work of this class may be divided into three parts.

1. It is desired, in the first place, that the student should obtain a knowledge of the main facts in the *history* of our literature. For this purpose, the class reads, for regular recitation, Stopford Brooke's "Primer of English Literature." The lessons assigned from it are made very short, partly that there may be opportunity, during the hour of recitation, for discussion and frequent half-hour lectures, and partly that members of the class may find time to devote to the other portions of the work described below.

2. It is desired, secondly, that the class shall during the year read critically at least two or three representative specimens of our best literature. The last recitation of each week is given to this exercise. The works selected this year are Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale, one canto of Spenser's Faery Queen, Shakspere's Hamlet, and selections from Pope's Satires. Members of the class are expected to inform themselves upon the history of these writings and upon the life and times of their authors, and to read them with minute care in preparation for the recitation and criticism of the class-room. Four or five lectures upon these selected authors are read by the Professor before the class.

It is hoped that this careful study of the literature itself in some of its best specimens may not only educate the taste and stimulate an interest in the highest literature, but may also cultivate that habit of thorough and critical reading needful for the appreciation of what is best in letters.

3. The third part of the work of this class is a brief course of collateral reading. Several different courses are laid out by the Professor at the beginning of the year, from which each member of the class must select one. Each course contains a few of the most representative writings of a limited period. The courses for the present year are five, as follows:

COURSE I. Marlow's Faustus and Green's Friar Bacon; Shakspere—four plays and ten sonnets; Bacon's Essays—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost, Book I., Samson Agonistes.

COURSE II. Johnson's Lives of Milton, Dryden, Swift, Addison, Pope, and Gray; Milton's Comus and Paradise Lost, Book I.; Dryden's Absalom and Achitophel; Swift's Tale of a Tub, Journal to Stella, letters I.–XII.; Addison's Spectator—25 selected papers; Pope's Rape of the Lock; Gray's Elegy.

COURSE III. Thackeray's Lectures on Swift, Addison, Steele, Prior, Gay, Pope, Sterne, and Goldsmith; Swift's Tale of a Tub, Battle of the Books, Journal to Stella, letters I.–XII.; Addison's Spectator—20 selected papers; Steele's Tatler—12 selected papers; Goldsmith's Deserted Village, Retaliation, and Vicar of Wakefield; Leslie Stephen's Johnson, chaps. iii., iv.

COURSE IV. Leslie Stephen's Johnson, chaps. iii., iv.; Macaulay's Life of Johnson; Johnson's Rasselas and Vanity of Human Wishes; Cowper's Task, Book I.; Burke's two American Speeches, Reflections on the Revolution in France —the first half, Letter to a Noble Lord; Burns—selected poems.

COURSE V. Burns — selections; Wordsworth — selected poems in Arnold's edition; Shelley—selected poems in Stopford Brooke's edition; Keats' Hyperion, Odes, and Sonnets; Byron—one canto of Childe Harold; Lamb—selections from the Essays of Elia; De Quincey's Recollections of Lamb and

Wordsworth, Suspiria de Profundis; Shairp's Essay on Wordsworth.

With each of these courses is given to the student a short list of the books which he may consult with advantage for the history and criticism of the literature he is reading. It is believed that such a brief course of reading not only cultivates a taste for what is best in letters, but also gives the student an intelligent notion of the relations of literature to the social and political history of the period in which it was produced, such as he could hardly gain from a text-book. The care with which the reading is done is tested by a series of written examinations held at stated intervals throughout the year.

IV. In the Senior year an advanced class in English Literature is formed, open only to a limited number of those who have pursued in the Junior year the course just described. This class numbers this year 1 graduate student, 13 Seniors, and 2 Special Students; it recites two hours a day on alternate days throughout the year. The object of the study of this class is to gain a somewhat thorough knowledge of the literature of some brief period. The period chosen for the study of the present year is that embraced between the years 1789 and 1832. A course of lectures is given the class, during the first six weeks of the term, upon the history of this period, especially in its relations to literature. Then the principal works of Burke (after 1789), Burns, Wordsworth, Coleridge, De Quincey, Lamb, Scott, Byron, Shelley, and Keats are divided among the members of the class for reading. They read these works, and, in turn, present before the class careful analyses and full discussions of what they have read. In this manner every member of the class either reads himself or hears discussed at length nearly every one of the most important specimens of our literature during the period studied. The regular discussions of the class-room are supplemented by a course of lectures upon the period. The class are required to take notes of all discussions, and the thoroughness with which the work is done is tested by a series of written examinations.

V. *English Composition.*—The Freshmen present, once in two weeks, exercises in the simpler forms of composition,

which are discussed before the class. This work is under the direction of Mr. W. E. Mead. Every member of the Sophomore and Junior classes is required to write nine essays in the year; every Senior must write an argument for debate before his class, and either four essays or two public orations. All these exercises are read and corrected by the Professor of Rhetoric. The Sophomores meet also nine times a year for general oral discussion and criticism of their themes; and every member of the Junior class meets the Professor privately, once a term, for individual criticism upon his work.

ELOCUTION.

PROFESSOR HIBBARD.

1. The Freshman, Sophomore, and Junior Classes are required to present declamations, mostly of their own selection, fortnightly.

It is expected of each student that he will make a good variety of selections, chiefly from standard authors.

The classes are divided into sections of ten or twelve each, and the exercise for each section occupies one hour. Criticism is made upon personal defects, and suggestions are given with regard to vocal culture and proper courses of practice.

During the Sophomore and Junior years occasional exercises are required to be taken from some particular author.

The work in this department is largely of a practical character, and aims to preserve and develop in each student, as far as possible, his best personal characteristics as a speaker.

2. To those who desire a more intimate knowledge of the theories of Elocution, this study is made elective in the Junior year. The same rules govern the admission of students to this study as to those in other departments.

The class this year contains 7 Seniors and 15 Juniors.

The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin's Chironomia. Practical illustrations of the subject are given, and the text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Each student is required during this term to prepare one forensic, and one descriptive, original declamation to be delivered before the class for criticism. The purpose of the work of this term is to render each student competent to judge correctly of his own expression of thought and feeling, and to intelligently criticise others.

History and Political Economy.

PROFESSOR WESTGATE.

I. The required studies of this department are, The Constitution of the United States and Political Economy.

1. The Constitution of the United States is taught on alternate days throughout the first half of the Junior year.

Effort is made to impress the distinction between constitutional and statute law. The aim is to make clear and fix in the memory the precise provisions of the constitution. Cooley's "Principles of Constitutional Law in the United States" is used as a text-book. It is believed to be of great value as an authoritative statement of the existing interpretation of the constitution. Lectures are given upon the constitution itself, in which the meaning, reasons, and history of the various clauses are discussed and the nature of our government set forth. The time of the class is divided about equally between recitations and lectures.

2. Political Economy is a Senior study four days in the week during the last half of the year.

Walker's Political Economy is employed as a text-book. Supplementary lectures on special topics are given from time to time. Among the subjects thus discussed are the relations of capital and labor, and the various attempts to improve these

relations. While the general principles of the science are laid down, special prominence is given to those subjects which are of most present interest in the United States, and illustrations of the principles of Political Economy in the history of the United States are freely cited. Thought upon the problems of Political Economy is encouraged, and objections to the views presented are welcomed and considered.

II. The elective classes in the department are engaged wholly in the study of History. This may be taken as a half study in the Junior or Senior year, or in both years.

1. The Junior Year is given to the History of England. Attention is especially directed to the characteristics of the English people, and to the development of the English constitution. The close connection between English and American institutions and history is pointed out. Green's Short History of the English People is followed as a text-book. Explanations and additions are made in the class. Students are expected to prepare from other sources and present in the class brief papers in which some of the topics shall be more fully treated. The class in Junior History this year consists of twenty-three Seniors and twenty-three Juniors.

2. The subject in the Senior year is the History of the United States from the close of the Revolution to the origin of the civil war. Constitutional, political and economical questions chiefly are considered. With this view the lives and writings of some of our eminent statesmen are examined as far as time will allow. These men are studied as centres of the discussion and action of their times.

Hamilton and Webster have been chosen as the two whose lives most nearly cover the portion of our history intended, and who respectively had most to do with shaping and preserving our government.

Lodge's Life of Hamilton, in the "American Statesmen" series, is carefully read by the class and supplemented by statements from the instructor. About half the time is given to the reading and discussion of some of the principal writings of Hamilton. This year seventeen papers in The Federalist, the First Report on Public Credit, the Argument on the Constitutionality of a National Bank, and the Report on Manufactures,

will be read. Frequent examinations are had on the different writings and a general examination on all is held at the close of the study. All the members of the class are expected to show a good knowledge of these writings, except such parts as are unessential and of temporary interest. The opinions of contemporaries, such as Jefferson and Madison, upon the same subjects, are presented for comparison.

Lodge's Life of Webster, in the "American Statesmen" series, is used as a guide in studying the times and questions with which Webster was connected. A course of reading, intended to give an idea of the discussions of his time, is pursued. The method is the same as that described above in connection with Hamilton. The following works will be read this year:

Webster's Argument in the Dartmouth College case, Clay's Speech on American Industry, Webster's Speech on The Tariff of 1824, Hayne's speech on Foot's Resolution, Webster's Reply to Hayne, Calhoun's Speech on The Force Bill, Webster's speech entitled "The Constitution not a Compact between Sovereign States," Webster's Seventh of March Speech, and Seward's Speech on Freedom in the New Territories.

The class in Senior History this year consists of twenty-eight persons.

MENTAL PHILOSOPHY.

MR. HOFFMAN.

The instruction given in this department includes Logic, Psychology, and the History of Philosophy.

I. LOGIC.

1. *To the Sophomores.*—The instruction in this class is confined to the simple elements of the science as generally accepted by the best writers on the subject. Special attention is directed to the analysis of arguments and special drill is given in the detection of logical fallacies. This is a required study; the class meets five hours a fortnight for the last half of the year. The text-book used is Jevons' Elements of Logic.

2. *To an Elective Class of Juniors.*—This class meets five hours a fortnight throughout the year. The object with this class is twofold :

A. To examine critically the different theories of Logic, and to set forth the true philosophic explanation of the reasoning process.

B. To show how the true theory is to be applied to the various departments of knowledge, if our reasoning is to be valid. Discussions by the members of the class are frequent. Mill's System of Logic and Jevons' Principles of Science are the chief works on the subject used by the student. The class this year numbers eighteen.

II. PSYCHOLOGY.

This is a required study with the whole Junior Class; the class meets five hours a fortnight for the last half of the year. The relation of Psychology to the other sciences is first set forth, and the fact that it furnishes the key to all questions concerning man as a social, moral and religious being is emphasized. The distinction between Rational and Empirical Psychology is set forth and the attention of the class in this required study is confined simply to the latter—*i. e.*, the careful observation of the facts of mind and their arrangement into a system. The text-book used is Hickok's Mental Science.

III. HISTORY OF PHILOSOPHY.

This is an elective study for the Seniors only, coming five hours a fortnight throughout the year. The object of this course in Philosophy is to set forth the content and internal connection of the principal philosophical systems from the earliest times to the present day. The first half of the year is devoted to a critical study of the ancient Greek philosophers—especially Plato and Aristotle. The second half of the year, after a few lectures on Medieval Philosophy, is given to a critical examination of the systems of Bacon, Descartes, Spinoza, Locke, Berkeley, Hume, Leibnitz, Kant, Hegel, Mill, Hamilton, Schopenhauer, Von Hartmann and Herbert Spencer. Text-book, Schwegler's History of Philosophy. The class at present numbers nine.

Moral Philosophy and Christian Evidences.

PRESIDENT BEACH.

As the time of the President is at present wholly occupied by administrative duties, the instruction in Ethics is given this year by MR. HOFFMAN; instruction in the Evidences of Christianity, by PROFESSOR RICE.

Moral Philosophy is a required study during the first term of the Senior year. Four exercises a week for twelve or thirteen weeks are given to this study. The student is expected to make himself familiar with the plan and principles of whatever text-books are adopted, and to be at any time ready to give a clear and comprehensive outline of his studies. He is, however, not the less expected to do much thinking of his own, and is encouraged and helped to a breadth of study that shall comprehend whatever in theoretical and practical morals the study of the subject should involve. The plan of recitation and discussion followed in the class-room is one intended to put the student into sympathy with the study he is pursuing, and dispose him to those habits of study and thought that will enable him out of himself to derive both his best knowledge and strongest convictions of moral truth and duty. The text-book in present use is Hickok's Ethics, as edited by Seelye.

EVIDENCES OF CHRISTIANITY.—This is a required study for the Senior class. There are four exercises per week for about six weeks. The text-book is Fisher's Grounds of Theistic and Christian Belief. The greater part of the book is read within the time specified, the lessons assigned being sufficiently long to allow this to be accomplished. The recitation hours are occupied chiefly in general discussion. In the examination, ability to give an intelligent discussion of the various lines of argument is required, rather than minute familiarity with the text-book.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. WHITE.

The courses of instruction in this department are as follows:

REQUIRED COURSES.

Freshman Year.—Solid Geometry; Algebra; Plane and Spherical Trigonometry, with the use of logarithmetic tables. Five times a week.

Sophomore Year.—1. Analytical Geometry of two dimensions. Five times a week during the first term.

2. Surveying, including Levelling. Recitations and field-practice, the equivalent of one exercise a week being required of each member of the class.

Senior Year.—A general course in Astronomy, requiring only elementary mathematics. Twice a week.

ELECTIVE COURSES.

Junior Year.—Differential and Integral Calculus. Five times a fortnight. Elected this year by seven.

Senior Year.—Spherical and Practical Astronomy. Five times a fortnight, with practical exercises in the observatory. No more than six persons will be admitted to this course, and a previous acquaintance with Differential and Integral Calculus will be required. Elected this year by four.

Text-Books.—Chauvenet's Geometry; Newcomb's Algebra; Wheeler's Trigonometry; Newcomb's Analytical Geometry; Murray's Land-Surveying; Byerly's treatises on Differential and Integral Calculus; Ball's Astronomy; Chauvenet's Spherical and Practical Astronomy.

In addition to the foregoing, the professor of the department will give instruction, during the second and third terms, to such students as may desire it, in Determinants and an advanced course in Analytical Geometry. One hour a week will be devoted to these subjects.

Graduate students and candidates for mathematical honors will also be assisted in their mathematical reading, the times to be determined by mutual agreement. The subject selected for special honors, the current year, is Quaternions; for the next year, Theoretical Astronomy.

ASTRONOMICAL OBSERVATORY.

The Observatory is used for purposes of instruction, and is well equipped therefor. Members of the Senior Class have frequent opportunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical

Astronomy are instructed in the theory and use of all the instruments of the Observatory.

The principal instruments are an equatorial of 12 inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, by Fauth & Co., with collimators of the same aperture; a prime vertical instrument of the same size and by the same makers; sextants; two astronomical clocks, a chronometer and a chronograph.

PHYSICS.

PROFESSOR CRAWFORD.

The exercises in this department for the current year are as follows:

For the Sophomores, A required course of five hours a week for two terms, consisting of recitations in Daniell's Principles of Physics, with occasional experimental lectures.

For the Juniors, 1st, An elective course of five hours a fortnight throughout the year, consisting of experimental lectures in Acoustics and Optics. Number in class, fourteen.

2nd, An elective course in Practical Physics. Those who take this elective must work at least two and a half hours consecutively in the laboratory five times a fortnight throughout the year. The text-book mainly used as furnishing an outline of the laboratory course is Kohlrausch's Physical Measurements, the experiments in which indicate the grade of work required in the course. Number in class, six.

For the Seniors, An elective course in Practical Physics, being a continuation of the Junior laboratory course, and requiring the same amount of time. Number in class, three.

Once in three or four weeks, a meeting of the classes in Practical Physics is held, at which several of the members are expected to give, in the form of short lectures, a detailed account of the work they have recently done.

There is also a special class, meeting once a week, in the elements of the Mathematical Theory of Electricity, which forms

part of the work assigned this year for those purposing to take Special Honors in Physics.

The department is well supplied with apparatus for the illustration of most of the important principles of Physics. The following are some of the principal pieces used in the laboratory:

Cathetometer, by Bamberg of Berlin.

Balance, by Bunge of Hamburg.

Small goniometer, seven inch circle, by Elliott Bros.

Large goniometer, by Hilger, with 18 inch circle (graduated by Troughton & Simms), achromatic and quartz lenses, and automatic minimum deviation attachment.

Two of Rutherford's diffraction gratings.

Diffraction bench, by Duboscq.

Jolly's air thermometer.

Most of the important pieces of Koenig's acoustic apparatus.

Apparatus for electrical measurements, mostly of Elliott Bros.' make, including Thomson's mirror galvanometer, Thomson's quadrant and trap-door electrometers, sine, tangent, and astatic galvanometers, conductivity apparatus, condenser, resistance boxes, Wheatstone's bridge, thermopiles, etc., etc.

The laboratory is connected with the observatory clocks, and has the use of the chronograph and spectroscopes belonging to the astronomical department.

CHEMISTRY.

PROFESSOR ATWATER; MR. ROCKWOOD.

1. ELEMENTARY CHEMISTRY.—This is required for the Juniors of the Classical, the Sophomores of the Latin-Scientific, and the Freshmen of the Scientific course. It extends through the fall and winter terms, the exercises occurring on alternate days, and numbering in all about eighty. The exercises consist of lectures and laboratory practice, with occasional oral and written recitations. The elementary principles of inorganic and theoretical chemistry are studied. A small number of lectures on organic and physiological chemistry are also included. Eliot and Storer's Elementary Manual

of Chemistry is used, chiefly because of its very convenient descriptions of experiments for laboratory practice. Remsen's Theoretical Chemistry is employed for reference also. Each student performs, in the laboratory, the larger number of the experiments described in the lectures and text-book.

2. QUALITATIVE ANALYSIS—To students in the Scientific course during the last three years, and those in the other courses during the last two years, laboratory chemistry is offered as an elective. It is assumed that the opportunities of the required elementary chemistry will give sufficient drill in the principles of the science and in laboratory practice to enable the student to work understandingly in qualitative analysis, to which the first year's elective work in the laboratory is, in most cases, devoted. The exercises, like those of the other electives, occur five times a fortnight, thus making about ninety in the year. Each exercise occupies at least two and a half hours. Opportunity for spending a longer time in the laboratory is offered to all and utilized by a considerable number of the students. The usual course of preliminary study of reactions and subsequent analysis of complex substances is pursued. A feature in which the method differs from that followed in some laboratories is found in the fact that but comparatively little use is made of tables or text-books of qualitative analysis except such as the students prepare for themselves on the basis of their own observations, with the aid, of course, of oral explanations and lectures.

3. QUANTITATIVE ANALYSIS is usually taken up at the beginning of the second year's work in the laboratory. After a series of general exercises for practice, such as are laid down in Fresenius' Quantitative Analysis, the students are encouraged to enter upon special work such as seems desirable in each case. Those who propose to study medicine, for instance, engage in the preparation and determination of the proximate compounds of the body, in urine analysis, or in other work, qualitative as well as quantitative, in physiological chemistry.

4. THEORETICAL AND PHYSIOLOGICAL CHEMISTRY.—To students who have completed the elementary chemistry and a year's work in the laboratory, are offered elective courses in theoretical and biological chemistry. The exercises consist in

part of laboratory work, and in part of readings and essays upon special topics. The classes meet the instructor in a less formal manner than is usual in other subjects, often in the evening, discussions replacing stated lectures. The following special topics are assigned for the current college year:

1. The Atomic Theory. 2. Atomic Weights. 3. Valence. 4. Constitution of the Albuminoids. 5. Chemistry of the Nutrition of Man. 6. Sources of the Nitrogen of Plants.

Besides the larger hand-books, dictionaries and chemical journals, the following special treatises are recommended for the work of the current year:

Wurtz, *The Atomic Theory.*

Maxwell, *Theory of Heat.*

Tait, *Recent Advances in Physical Science.* Lectures on the Structure of Matter.

Armstrong, Maxwell, and others, *Articles "Chemistry," "Atom," and "Molecule," in Encyclopedia Britannica.*

Gamgee, *Physiological Chemistry.*

Foster, *Physiology.* Chapters on *Chemical Basis of the Animal Body and Nutrition.*

In the current year the number of students in analytical chemistry is thirteen, in advanced (theoretical and biological) chemistry, four.

Candidates for special honors in chemistry pursue special courses of study and laboratory work cognate with those in advanced chemistry.

GEOLOGY.

PROFESSOR RICE.

The required course in Geology occupies six hours per week during the third term of the Junior year. Instruction is given chiefly by lectures, Dana's Text-Book being used for reference. The object of this course is to bring the student to an intelligent appreciation of the general laws and principles of geological science. The problems of dynamical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. Specimens, maps, and

diagrams are freely used. Illustrations of geological principles are taken, so far as practicable, from localities in the immediate vicinity of Middletown; and occasional excursions are arranged to give a knowledge of local geology, and to teach the student how to observe geological phenomena in general.

It is proposed to establish next year an elective course in geology for advanced students; but the plan is not sufficiently matured for detailed statement.

There are two elective courses in studies closely related to geology.

I. A course in Physical Geography, given to the same students who take Botany, and occupying the interval between the two parts of the botanical course. The text-book used is Geikie's Elementary Lessons. Number in class, 27.

II. A course in Mineralogy, five times a fortnight, throughout the year. This course comprises three parts:—1, a course in crystallography and physical mineralogy, in which the instruction is given chiefly by lectures, illustrated by models of crystalline forms and by crystals; 2, a course of laboratory work in determinative mineralogy; 3, a course of lectures on descriptive mineralogy. The lectures on descriptive mineralogy are given in the Museum, so that the characteristics of each important mineral can be illustrated by a full suite of specimens. The works of Dana and Brush are used for reference. Number in class, 2.

BIOLOGY.

DR. CONN; MR. BARROWS.

I. PHYSIOLOGY.—DR. CONN.—A required course in Physiology, three hours a week during the fall and winter terms of the Junior year. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. The object of the course is to give the student a general knowledge of the functions of the various organs of the body in their normal condition. The origin of the energy of the body, its distribution, and final transformations, are treated in accordance with the doctrine of the conservation of energy. Enough anatomy is given to render the physiological discus-

sions intelligible, and enough of hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures.

II. BOTANY.—MR. BARROWS.—Botany is begun in the fall term, with Gray's Lessons in Botany as a text-book, and illustrated practically with such flowering plants as are then obtainable, which each student dissects, analyzes, and describes in the class. The subject is dropped about November 1st, and resumed in April, when the "Lessons" are reviewed, and two hours' practical exercises in analysis and description of phenogams follow until Commencement. A few lectures on the structure and classification of cryptogams are also given during the year. Number in class, 29.

III. DR. CONN.—A course in Biology, five hours a fortnight, lecture and recitation. This course is designed to give the student a knowledge of the phenomena connected with life in general. Typical examples illustrating the various groups of the animal kingdom are described, attention being given rather to the general laws governing living beings, than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as the adult anatomy. Eighteen students.

IV. DR. CONN.—A practical laboratory class. The students spend 2½ consecutive hours in the laboratory five times a fortnight. The students get practical knowledge of the use of the microscope and dissecting instruments. The work done varies with the needs and desires of the student. Those who expect to study medicine, spend the time in physiological experiments, in histological work on the tissues of the higher animals, and in careful dissection of some mammal. Those desiring a more general course make a careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as, amœba, infusoria, hydra, earthworm, yeast, mould, chara, flowering plant, etc., finishing with dissection of vertebrates. The student thus gains a practical knowledge of living things such as is impossible to be obtained from the study of books. Seven students.

Several important changes are contemplated for another year.

Tabular Statement of the Courses of Study.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

	No of Terms.	No. of Exercises per Fortnight.		No of Terms.	No. of Exercises per Fortnight.
Latin,	3	10	Mathematics,	3	10
Greek,	3	10	English,	3	2

SOPHOMORE YEAR.

REQUIRED.

Latin,	3	5	Surveying,	3	2
Greek,	3	5	Rhetoric,	1½	5
Analytical Geometry,	1	10	Logic,	1½	5
Mechanics,	1	10			
Physics,	1	10			

ELECTIVE.

French,	3	5	German,	3	5

JUNIOR YEAR.

REQUIRED.

Constitution of U. S.,	1½	5	Chemistry,	2	6
Psychology,	1½	5	Physiology,	2	6
			Geology,	1	12

ELECTIVE.

Calculus,	3	5	Elocution,	3	4
Theoretical Physics,	3	5	History,	3	5
Practical Physics,	3	5	Logic,	3	5
Practical Chemistry,	3	5	Latin,	3	5
Zoölogy,	3	5	Classical Greek,	3	5
Botany,	1¾	5	Biblical Greek,	3	5
Physical Geography,	1¾	5	French,	3	5
Mineralogy,	3	5	German,	3	5
English Literature,	3	5	Italian,	3	5

SENIOR YEAR.

REQUIRED.

	No. of Terms.	No. of Exercises per Fortnight.		No. of Terms.	No. of Exercises per Fortnight.
Eth. & Chris. Ev., }	1½	8	Astronomy,	3	4
Polit. Economy, }	1½	8			

ELECTIVE.

Practical Astronomy,	3	5	Hist. of Philosophy,	3	5
Practical Physics,	3	5	History,	3	5
Practical Chemistry,	3	5	English Literature,	3	5
Chemical Philosophy,	3	5	Latin,	3	5
Practical Biology,	3	5	Greek,	3	5

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

Mathematics,	3	10	Rhetoric, }	1½	5
Latin,	3	10	Logic, }	1½	5
French,	3	5	English Language,	3	2

SOPHOMORE YEAR.

REQUIRED.

Analytical Geometry, }	1	10	Chemistry, }	2	6
Mechanics, }	1	10	Physiology, }	2	6
Physics, }	1	10	Geology, }	1	12
German,	3	5			

ELECTIVE.

Latin,	3	5	French,	3	5

JUNIOR YEAR.

REQUIRED.

	No. of Terms.	No. of Exercises per Fortnight.		No. of Terms.	No. of Exercises per Fortnight.
Constitution of U. S.,	1½	5	Surveying, - -	3	2
Psychology,	1½	5			

ELECTIVE.

Calculus, - - -	3	5	Logic, - - -	3	5
Theoretical Physics, -	3	5	English Literature, -	3	5
Practical Physics, -	3	5	Elocution, - -	3	4
Practical Chemistry, -	3	5	History, - - -	3	5
Zoölogy, - - -	3	5	Latin, - - -	3	5
Botany,	1¾	5	German, - - -	3	5
Physical Geography,	1¼	5	Italian, - - -	3	5
Mineralogy, - -	3	5			

NOTE.—Of the five electives taken by each student in this year of the Latin Scientific Course, not less than three must be selected from among the first seven on the list.

SENIOR YEAR.

Same as in Classical Course, with the omission of the elective in Greek.

SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

Analytical Geometry,	1	10	French, - - -	3	5
Mechanics,	1	10	Rhetoric, - -	1½	5
Physics,	1	10	Logic, - -	1½	5
Chemistry, - -	2	6			
Physiology, - -	2	6			
Geology, - -	1	12			

SOPHOMORE YEAR.

REQUIRED.

	No. of Terms.	No. of Exercises per Fortnight.		No. of Terms.	No. of Exercises per Fortnight.
Surveying,	3	2	Botany, }	1¾	5
Theoretical Physics,	3	5	Physical Geography, }	1¼	5
Practical Chemistry,	3	5	French,	3	5
Zoölogy,	3	5	German,	3	5

NOTE.—Students in this course desiring to elect Calculus, are allowed to take that study in the Sophomre year, and to postpone some one of the Sophomore studies till the Junior year.

JUNIOR YEAR.

REQUIRED.

Constitution of U. S., }	1½	5	German,	3	5
Psychology, }	1½	5	English Language,	3	2

ELECTIVE.

Calculus,	3	5	Logic,	3	5
Practical Physics,	3	5	English Literature,	3	5
Practical Chemistry,	3	5	Elocution,	3	4
Chemical Philosophy,	3	5	History,	3	5
Mineralogy,	3	5	Italian,	3	5
Practical Biology,	3	5			

SENIOR YEAR.

REQUIRED.

Same studies as in Classical Course.

ELECTIVE.

Practical Astronomy,	3	5	History of Philosophy,	3	5
Practical Physics,	3	5	History,	3	5
Practical Chemistry,	3	5	English Literature,	3	5
Practical Biology,	3	5			

NOTE.—A brace enclosing the names of two or more studies indicates that those studies jointly extend through the year, the time being divided between them. The statement of number of terms, in the case of those studies which do not extend through the year, is only approximate.

Selection of Studies.

Each student is required to attend sixteen recitations a week, or the equivalent thereof, unless excused by vote of the Faculty; and, in addition, the rhetorical exercises assigned to the respective classes.

In making a selection among the elective studies, the following rules are to be regarded:—

A student may take elective studies assigned to a class below his own, as well as those assigned to his own class; but not those assigned to a class above his own, except by special permission of the Faculty. The election must in all cases be made for the whole year; no changes from one department to another being permitted during the year. Studies must be selected whose hours of recitation do not conflict with each other, as indicated by the tabular statement on the next page. The student's selection must in all cases be subject to the approval of the Faculty.

In order to avoid misunderstanding, each student shall present to the Secretary of the Faculty, on the first day of the Fall Term, a list of the studies which he desires to take.

Order of Recitations.

	SENIORS.	JUNIORS.	SOPHOMORES.	FRESHMEN.
8.	Astronomy. S. Practical Astronomy.* Greek.†	Chemistry. Physiology. } S. Geology. Latin.* French.* German.†	Surveying. S.	English. S.
9.	History.*	Calculus.† Logic.† II. Psychology.*	German.* I. Latin.†	II. Mathematics.
10.	II. English Literature.* History of Philosophy.†	Elocution. W., Th. Mineralogy.*	II. Latin.† French.*	I. Mathematics.
11.		English Literature.* History.†	Rhetoric. } † I. Logic. }	II. Latin. I. Declamation. W.*
12.	I. English Literature.* Latin.†	IV. Declamation. Th.† Constitution of U. S. } * I. Psychology. } III. Declamation. Th.†	Greek.* Mathematics. } Physics. }	I. Latin. III. Declamation. W.*
2.		Zoology.† Botany. I. Declamation. Th.† II. Declamation. Tu.†	I. Declamation. Tu.* II. Declamation. W.†	I. Composition. W.†
3.	Chemical Philosophy.†	Botany.* } * Physical Geography. } Physics.†	III. Declamation. Th.* IV. Declamation. W.†	II. Composition. Th.* II. Declamation. W.* I. Greek.
4.	Astronomy. M. Ethics. } Tu., W., Evidence. } Th., F. Pol. Economy. }	II. Physiology. } II. Geology. } Chemistry. } I. Physiology. } I. Geology. }	II. Logic.†	IV. Declamation. Th.† II. Greek.

In the preceding table, each study is assigned to that year to which it belongs in the Classical Course. Exercises named without any sign or initial are daily exercises. Exercises which occur on alternate days are denoted by the signs * and †. Of these half-studies, those which are marked with the same sign occur on the same days: those marked with different signs occur on alternate days. It will be observed that recitations in half-studies assigned to the same hour will interfere with each other only when they are marked with the same sign.

Letters following the names of studies indicate the days of the week on which certain exercises occur. Letters in connection with the sign * or † indicate that an exercise occurs on the day mentioned in those weeks only in which other exercises marked with the same sign occur on that day. Roman numerals preceding the names of certain studies indicate the sections into which the classes are divided.

The Chemical Laboratory is open for students in Practical Chemistry, on the days denoted by the †, from 8 A. M. till 1 P. M.; the Natural History Laboratory and the Physical Laboratory are open for students in Practical Natural History and Practical Physics respectively, on the days denoted by the *, from 8 A. M. till 1 P. M. Each student electing either of these studies is required to spend at least two and a half hours consecutively in the Laboratory, the particular hours of attendance to be assigned to each student by the Professor of the Department.

Examinations.

Examinations, either oral or written, are held in all the studies of the course. The oral examinations are held near the close of the college year, and are conducted before Examining Committees appointed by the Executive Committee of the Trustees. The written examinations are held whenever the respective studies are finished; but the papers are reserved for inspection by the Examining Committees. No student who has been absent from fifteen per cent or more of the required exercises in any study, can be admitted to examination in that

study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences are not due to culpable negligence. No student who has been absent from ten per cent or more of the required exercises in any study can be admitted to the regular examination in that study without first passing a preliminary examination.

Special examinations will be held during the third term for those who have been absent, with sufficient reason, from the regular examinations which have occurred in the previous part of the year.

A special examination will be held, commencing on the Tuesday before the beginning of the first term, for those who shall have failed to pass any of the examinations of the preceding year. Students who fail to pass at this examination will be required to attend recitations with the next class in the studies in which they are deficient, and to be examined with the class at the regular time.

A student desiring to take more than the prescribed quota of elective studies may present himself at the special examination, at the beginning of the first term, to be examined in advance in any required study; and, on showing evidence of a high degree of proficiency, he may be excused from recitation in that study.

Public Worship.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city. Each student is allowed to elect what church he will attend, and is required to report such election to the Registrar at the beginning of each college year.

Leave of Absence.

No student is allowed to be absent from college without special permission from the President.

The time appropriated to vacations is believed to be ample for the purpose of relaxation from study; and, in view of the unfavorable effect of all absences, either at the commencement or at any other period of the term, upon the standing and proficiency of the student, the Faculty earnestly request that parents and guardians will in no way encourage, or even sanction, such absences, without very urgent reasons.

Expenses.

The annual charges in the Treasurer's bill are as follows :—

Tuition, - - - - - - - - -	$75 00
Room Rent, from $12.00 to $36.00; average,	27 00
General Repairs and Incidental Expenses, -	21 00
Use of Library and Reading Room, - -	6 00
Total, - - - - - - - -	$129 00

Students in practical chemistry are charged for the use of apparatus, for chemicals, and incidentals. This charge averages about eleven dollars a term.

A diploma fee of five dollars is charged to each student at graduation.

Any person admitted to advanced standing will be charged two dollars for each term of such advancement, unless it shall have been obtained at another college.

Persons holding *free, permanent* or *transferable* scholarships are exempt from charges for tuition.

The college bills are payable at the commencement of each term; to any bill not paid on presentation, after one week's notice, five per cent. shall be added. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town; but the places in which they room or board must in all cases be subject to the approval of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Board may be obtained in private families at prices varying from $3.00 to $5.00 a week. A large majority of the students board in clubs, at prices ranging from $2.00 to $4.00 a week.

Students provide for themselves furniture, fuel, lights, and books.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

Gymnasium.

The Gymnasium provides all the students, under certain rules and conditions, with opportunities for physical exercise, and is furnished with apparatus suitable for this purpose.

Library and Reading Rooms.

The Library in Rich Hall contains about thirty-four thousand volumes. The library hall is open every week day of term time from 10 A. M. to 1 P. M., and from 2 to 4 P. M. No student may take from the Library more than two books at a time, without special permission; books are loaned for two weeks, with a privilege of renewal, in the case of most books, for two weeks longer.

Books reserved by request of officers of instruction as collateral reading for students in their classes are shelved in a separate reading-room, can be taken out only at the close of library hours, and must be returned upon the opening of the library.

The books are catalogued on cards, on the so-called dictionary plan. Direct access to the shelves is allowed to all, in order that they may secure the benefit derived from selecting and examining the books themselves. Assistance is freely given by the Library staff when called for; but it is expected that students will consult for themselves the catalogues, indexes and other helps, and thus learn the use of literary tools.

Visitors are always welcome, and at liberty to consult the Library.

The Library fund amounts to about twenty thousand dollars, the income of which is devoted to the increase of the Library.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. The second, or Library reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

Museum.

The Museum of Natural History occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with especial reference to educational purposes, and are freely accessible to students.

The Mineralogical Department includes about eight thousand specimens, representing more than three hundred species, and a much larger number of varieties. The Franckfort Collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. The Paleontological collection includes about four thousand specimens.

The nucleus of the Departments of Botany and Zoölogy was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Zoölogical Department has received since 1872 most important accessions in liberal donations from the Smithsonian Institution, and in collections made by the curators on the coast of New England through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Museum is open to the public on Wednesday and Saturday afternoons.

Scholarships.

A limited number of *Free Scholarships*, exempting the holder from the charge for Tuition, have been established by the Trustees, and are available at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these, are the following:—

The John Evans Scholarship.

This Scholarship has been founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is yearly to be given to that member of the Senior or Junior class who shall be named by the Board of Trustees, or some authority to whom they may delegate the nomination. Only such as are preparing themselves for the ministry and are already licentiates in the Methodist Episcopal Church, can be candidates for this Scholarship.

The Squire Scholarship.

This Scholarship has been founded by Watson C. Squire, B. A. The income of it, amounting to a hundred and fifty dollars, will be awarded to that member of the Senior Class who shall pass the best examination in Greek, provided he pursue a course of study in Middletown, under the direction of the Faculty, for at least one year after graduation.

The Seney Scholarships.

These have been established by George I. Seney, M. A., and are forty in number. They will be awarded, on the basis of the merit-roll, under such conditions as the founder of the Scholarships has prescribed. Sixteen of these Scholarships, ranging

from one hundred dollars to two hundred and fifty dollars, are Freshman Scholarships; the remaining Scholarships, twenty-four in all, are divided among the upper classes equally. The Freshman Scholarships were awarded for the first time in the Fall of 1882, the Sophomore Scholarships in the Fall of 1883, the Junior Scholarships in the Fall of 1884; the Senior Scholarships will not become available until the Fall of 1885. It is stipulated by the founder of the Scholarships that no student shall be considered a candidate for any one of them who was not in attendance upon college exercises throughout the year for which the Scholarship is awarded, nor shall any Scholarship, though awarded, be paid to one who is absent from college during the year in which it is payable. No one who is regularly employed as a preacher or teacher, shall, during the year in which he is so occupied, be considered a candidate for any of these Scholarships. Nor shall any student be considered as a candidate for them during any year in which he has been the subject of serious college discipline.

The Scholarships for the three lower classes will be awarded as soon after the beginning of each academic year as the record of standing for the previous year can be prepared; and will be paid in three installments:—the first, immediately upon the assignment of the Scholarships; the second, at the beginning of the Winter Term; the third, at the beginning of the Spring Term.

The Senior Scholarships will be awarded two weeks before Commencement, and be paid at that time in one payment.

Prizes.

The following prizes will be awarded during the present year:

The Rich Prize the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior Class whose oration at Commencement shall be deemed best in composition and delivery.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior Class who shall excel in English Composition. The subject for the essay of

1885 is, "The Political Consistency of Daniel Webster." The subject for the essay of 1886 is, "The Opinions and Influence of Thomas Carlyle." The essays must be left with the Professor of Rhetoric on or before the first Monday of the Third Term.

The Harrington Prize will be awarded to that member of the Senior Class who shall excel in History. The subjects for the examination of 1885 are:—1. The Studies of the Department for the Senior year; 2. The Reigns of Charles II., James II., and William III., of England.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior Class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior Class who shall write the best essay on Political Economy. The subject for this year will be, "Cotton Manufacturing in the United States." The essays must be left with the Professor in the Department on or before the first Monday in May.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded to that member of the Senior or Junior Class who shall excel in Natural Science. The examination for this prize this year will be in Geology.

A Prize, the gift of G. Browne Goode, M. A., will be given for the best Original Investigation in the Department of Natural History.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior Class who shall excel in English Literature.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior Class who shall excel in Logic.

The Miller Prize, the gift of Mrs. L. P. Miller, will be awarded to that member of the Junior Class who shall excel in Debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be given to that member of the Junior Class who shall excel in Metaphysics.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore Classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded as a second prize for excellence in elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore Class who shall excel in the Greek language.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore Class who shall excel in the Latin Language.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded this year to that member of the Sophomore Class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman Class who shall excel in Mathematics.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman Class who shall excel in Declamation.

The Ayres Prize, the gift of Daniel Ayers, M. D., LL. D., will be awarded to that member of the Freshman Class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in either of the college classes, who shall write the best English poem. The poem must be left with the Professor of Rhetoric before the Senior Examination.

The designation of the classes to which the prizes are offered respectively, is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold either of

these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:

The Rich Prize, to George Alexander Carnahan.

The Olin Prize, to William Armstrong Richard.

The Harrington Prize, to David George Downey.

The Wise Prize, to George Alexander Carnahan.

The Philosophy Prize, to Fred Elmer Tasker.

The Joseph D. Weeks Prize, to George Alexander Carnahan.

The Peirce Prize, to Edward Bennett Rosa.

The Ferry First Prize—Junior Exhibition, to Frank Bourne Upham.

The Ferry Second Prize—Junior Exhibition, to Saul Ober Curticè.

The Camp Prize, to Wilbur Everett Rowell.

The Weeks Prize, to Levi Oscar Kuhns.

The Miller Prize, to Arthur Eugene Sutherland.

The David A. Walkley Prize, to Ida Rachel Gridley.

The Herbarium Prize, to Lorenzo Nickerson Johnson.

The Parker Prize, to Julius Carl Converse.

The Scranton Prize, to Herbert Welch.

The Spinney Prize, to Herbert Welch.

The Phi Beta Kappa Prize, to Herbert Welch.

The Rice Prize, to George Phelps Wardell.

The Sherman Prize, to Frank Henry Richmond.

The Hibbard Prize, to Walter Russell Breed.

The Ayres Prize for the present year has been awarded to Fred Alexander Hillery.

Honors.

The speakers at the Junior Exhibition and at Commencement are selected according to the standing in Composition and Declamation subsequent to the Freshman Year.

There are two grades of honor conferred at graduation, based upon the general standing of the whole course. Eighty-

eight per cent of the maximum standing entitles a student to the first grade of honor, and eighty-three per cent to the second grade. *

Special honors are also given at graduation in each of the following departments:—

Latin; Greek; Modern Languages; Rhetoric and English Literature; Logic, Psychology and Ethics; Political and Social Science, including History; Mathematics; Physics; Chemistry; Natural History, including Geology.

The candidate for special honors must apply to the officer or officers of the department in which he proposes to take honors, not later than the first Monday in May of the Junior Year. He must pass, at the regular or special examinations, in all the studies (both required and elective) in the department in which he proposes to take honors, and must maintain in that department an average standing not lower than eighty per cent of the maximum. He must, in addition, pursue such a course of collateral reading or investigation as shall be prescribed by the officer or officers in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer or officers of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

The honors, both general and special, are stated in the diploma; and the names of students who take honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:

Honors in General Scholarship.

First Grade.—George Alexander Carnahan, Lorenzo Nickerson Johnson, Franklin Henry Taylor, Edward Burr Van Vleck.

Second Grade.—Ella Virginia Burr, Howard Abbott Clifford, Jacob Francis Cooper, Frank Clasen Hoyt, William

* The scale of marking in practical use is such that the best students in any department receive about ninety-two per cent of the absolute maximum.

Armstrong Richard, Herbert Edwin Russell, Albert Raddin Sweetser, Fred Elmer Tasker, Albert Perry Walker.

Honors in Special Departments.

Greek.—
To Frank Henry Taylor.

Latin.—Suetonius, Life of Tiberius; Propertius and Tibullus, Pindar's Selections. An essay on "The Influence of Greece upon Roman Literature"; an essay on "Roman Aqueducts as an Index of Roman Civilization, with an Account of their Present Condition."
To Carrie Matilda Hills, Fred Elmer Tasker.

Modern Languages.—
To Frank Henry Taylor.

English Literature.—The Writings of Edmund Burke. An essay upon "Burke's Attitude towards the Revolution in France."
To William Armstrong Richard.

Political and Social Science.—Macaulay's History of England, and a Thesis.
To George Herrick Dains, David George Downey.

Metaphysics.—The Philosophy of Sir William Hamilton.
To George Alexander Carnahan, Howard Abbott Clifford, Fred Elmer Tasker.

Natural History.—Mineralogy and Lithology. Examination on optical portion of Dana's Text-Book of Mineralogy, and on lithological portion of Geikie's Text-Book of Geology. Microscopic study, description, and drawing of a suite of slides illustrating the more common and important types of rocks.
To Lorenzo Nickerson Johnson.

Physiology.—Examination on Foster's Text-Book of Physiology.
To Cary A. Roe.

Mathematics.—The New Higher Algebra.
To Edward Burr Van Vleck.

Degrees.

The following degrees are conferred by the University, in course :

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

MASTER OF ARTS.—This degree may be conferred on every Bachelor of Arts, of three years' standing or more, who has been engaged since graduation in some literary occupation. Persons who intend to take this degree must apply to the President as early as the Monday preceding Commencement, and advance the usual fee.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

Obituary Record.

Obituary notices of deceased graduates of the University are published annually. All persons who can supply information appropriate to the future editions of this Record, are urgently requested to communicate the same to Professor Calvin S. Harrington.

Alumni Record.

Through the liberality of Orange Judd, Esq., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students of the College not graduates, with their present residences and such other information with reference to them as the most thorough search can obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Assistant Librarian, Mr. W. K. Stetson. The price of the Record, when sent by mail, is two dollars and twenty cents.

Information in regard to changes of residence or address of Alumni, and all other facts suitable for future editions of the Record is earnestly solicited. All who can furnish such information are requested to communicate with the Librarian, Prof. C. T. Winchester.

Calendar.

1884.

Sept. 11, Thursday.—First Term commenced.
Dec. 23, Tuesday.—First Term will close.

VACATION OF TWO WEEKS.

1885.

Jan. 8, Thursday.—Second Term will commence.
March 3, Tuesday.—Junior Exhibition.
April 1, Wednesday.—Second Term will close.

VACATION OF ONE WEEK.

April 9, Thursday.—Third Term will commence.
June 3, Wednesday.—Senior Examination will commence.
June 3, Wednesday.—Prize Debate and Declamation.
June 16, Tuesday.—Annual Examination will commence.
June 19, Friday.—Prize Declamation.
June 21, Sunday Morning.—Baccalaureate Sermon.
June 21, Sunday Evening.—University Sermon.
June 22, Monday.—Class Day.
June 23, Tuesday.—Anniversaries of the Literary Societies.
June 23, Tuesday.—Meeting of the Board of Trustees, at 9 o'clock, A. M.
June 24, Wednesday.—Business Meeting and Anniversary of the Alumni Association.
June 24, Wednesday.—Reunion of Classes of 1860, '70, '75, '78 and '82.
June 25, the last Thursday of June.—COMMENCEMENT.
June 26, Friday.—Examination of candidates for admission will commence.

VACATION OF ELEVEN WEEKS.

Sept. 9, Wednesday.—Examination of candidates for admission will commence.
Sept. 10, Thursday.—First Term will commence.
Dec. 23, Wednesday.—First Term will close.

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CALENDAR, 1885

JANUARY

S	–	4	11	18	25	
M	–	5	12	19	26	
T	–	6	13	20	27	
W	–	7	14	21	28	
T	1	8	15	22	29	
F	2	9	16	23	30	
S	3	10	17	24	31	

FEBRUARY

S	1	8	15	22	×	
M	2	9	16	23	×	
T	3	10	17	24	×	
W	4	11	18	25	×	
T	5	12	19	26	×	
F	6	13	20	27	×	
S	7	14	21	28	×	

MARCH

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M	2	9	16	23	30	
T	3	10	17	24	31	
W	4	11	18	25	×	
T	5	12	19	26	×	
F	6	13	20	27	×	
S	7	14	21	28	×	

APRIL

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M	–	6	13	20	27	
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MAY

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M	–	4	11	18	25	×	
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T	–	7	14	21	28	×	
F	1	8	15	22	29	×	
S	2	9	16	23	30	×	

JUNE

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JULY

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M	–	6	13	20	27	
T	–	7	14	21	28	
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T	2	9	16	23	30	
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AUGUST

S	–	2	9	16	23	30
M	–	3	10	17	24	31
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W	–	5	12	19	26	×
T	–	6	13	20	27	×
F	–	7	14	21	28	×
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SEPTEMBER

S	–	6	13	20	27	
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S	5	12	19	26	×	

OCTOBER

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NOVEMBER

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DECEMBER

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S	5	12	19	26	×	

1886

JANUARY

S	–	3	10	17	24	31
M	–	4	11	18	25	×
T	–	5	12	19	26	×
W	–	6	13	20	27	×
T	–	7	14	21	28	×
F	1	8	15	22	29	×
S	2	9	16	23	30	×

FEBRUARY

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M	1	8	15	22	×	
T	2	9	16	23	×	
W	3	10	17	24	×	
T	4	11	18	25	×	
F	5	12	19	26	×	
S	6	13	20	27	×	

MARCH

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F	5	12	19	26	×	
S	6	13	20	27	×	

APRIL

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M	–	5	12	19	26	
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W	–	7	14	21	28	
T	1	8	15	22	29	
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S	3	10	17	24	×	

ANNUAL CATALOGUE

—OF—

WESLEYAN UNIVERSITY,

1885-86.

MIDDLETOWN, CONN.:
PELTON & KING, PRINTERS AND BOOKBINDERS.
1885.

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† REV. EDMUND MEAD MILLS, PH. D.

NOTE.—In this List Trustees whose names are marked with an Asterisk, were elected by the Alumni. Those whose names are marked with a Dagger, were elected by the Patronizing Conferences. All others were elected by the Board.

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PRESIDENT,
AND A. V. STOUT PROFESSOR OF MORAL PHILOSOPHY.
(24 N. C.) 1 High St.

JOHN MONROE VAN VLECK, LL. D.,
FISK PROFESSOR OF MATHEMATICS AND ASTRONOMY.
(22 O. H.) 76 Church St.

REV. CALVIN SEARS HARRINGTON, D. D.,
ROBERT RICH PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE, EMERITUS.
(1 S. C.) 93 High St.

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(4 S. C.) 101 High St.

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M. L. TAFT PROFESSOR OF MODERN LANGUAGES.
(40 N. C.) 1 Wyllys Av.

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INSTRUCTOR IN ELOCUTION.
New Britain.

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(11 J. H.) 2 College Place.

WILBUR OLIN ATWATER, PH. D.,
BEACH PROFESSOR OF CHEMISTRY.
(4 J. H.) 175 High St.

* * * * * *

HEDDING PROFESSOR OF HISTORY AND POLITICAL ECONOMY.

CALEB THOMAS WINCHESTER, M. A.,
OLIN PROFESSOR OF RHETORIC AND ENGLISH LITERATURE.
(56 N. C.) 1 Pearl St.

ALFRED CHARLES TRUE, M. A.,
INSTRUCTOR IN GREEK AND LATIN.
120 High St.

MORRIS BARKER CRAWFORD, M. A.,
FOSS PROFESSOR OF PHYSICS.
(21 O. H.) 101 High St.

WALTER BRADFORD BARROWS, B. S.,
CURATOR OF THE MUSEUM.
(13 J. H.) 82 Church St.

ABRAM WINEGARDNER HARRIS, M. A.,
INSTRUCTOR IN HISTORY AND POLITICAL ECONOMY.
(8 S. C.) 82 Church St

WILLIS KIMBALL STETSON, M. A.,
LIBRARIAN.
(Library) 21 N. C.

ELMER TRUESDELL MERRILL, B. A.,
TUTOR IN LATIN.
18 N. C.

HERBERT WILLIAM CONN, PH. D.,
INSTRUCTOR IN BIOLOGY.
(46 N. C.) 120 High St.

ELIAS HERSHEY SNEATH, B. D.,
INSTRUCTOR IN MENTAL PHILOSOPHY.
106 High St.

HENRY SEELEY WHITE, B. A.,
TUTOR IN MATHEMATICS AND REGISTRAR.
22 N. C.

ELBERT WILLIAM ROCKWOOD, B. S.,
ASSISTANT IN CHEMISTRY.
75 High St.

FREDERICK SHENSTONE WOODS, B. A.,
ASSISTANT IN PHYSICS.
17 O. H.

STUDENTS.

GRADUATE STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Henry Dorsey Fernald, B. S., BIOLOGY AND GEOLOGY.	*Orono, Me.* *Maine State College,*	*106 William St.*
Frederick Shenstone Woods, B. A., MATHEMATICS, PHYSICS, AND ENGLISH LITERATURE.	*Hyde Park, Mass.*	17 O. H.

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
Everett Meacham Ball,	*Bellows Falls, Vt.*	A. Δ. Φ *House.*
Edward Lynn Blaine,	*Seattle, W. T.*	Δ. K. E. *House.*
Charles Wesley Blakeslee,	*Newark, N. J.*	16 O. H.
George Copeland Boswell,	*Jersey City, N. J.*	16 O. H.
Frank Russ Bouton,	*New York, N. Y.*	X. Ψ. *House.*
William Brill,	*Shamokin, Pa.*	14 O. H.
Walter Perley Buck,	*Le Raysville, Pa.*	Δ. K. E. *House.*
Clinton DeWitt Burdick,	*Smyrna, N. Y.*	18 O. H.
§ George McKown Busey,	*Gerardstown, W. Va.*	Δ. K. E. *House.*
Arthur William Byrt,	*Middletown.*	Ψ. Υ. *House.*

NAMES.	RESIDENCES.	ROOMS.
Acton Theophilus Civill,	*Coeymans, N. Y.*	11 O. H.
Henry Fitch Clark,	*New York, N. Y.*	Δ. K. E. *House.*
John Cheeseman Clark,	*Plattsburgh, N. Y.*	10 O. H.
Julius Carl Converse,	*Stafford Springs.*	42 N. C.
Wilbur Fisk Dales,	*Bloomville, N. Y.*	9 O. H.
Michael Joseph Donahoe,	*Scranton, Pa.*	38 N. C.
Herbert Elmer Drake,	*Bristol, N. H.*	*11 Wyllys Av.*
Edgar Alfred Emens,	*Fayette, N. Y.*	A O. H.
William Barker Gwinnell,	*Newark, N. J.*	18 O. H.
§ Charles Warren Hawkins,	*Bayport, N. Y.*	X. Ψ. *House.*
George Fletcher Illman,	*Parryville, Pa.*	*114 High St.*
William Henry Lindemuth,	*Philadelphia, Pa.*	A. Δ. Φ. *House.*
§ Charles Wesley Lyon, Jun.,	*Torrington.*	A. Δ. Φ. *House.*
Winfield Scott Manship,	*Honeybrook, Pa.*	36 N. C.
Elmer Francis Marsh,	*Middletown.*	*5 Park St.*
* John Henry Meyerhoff,	*Demarest, N. J.*	*8 Wyllys Av.*
† John Alden Morse,	*Bath, Me.*	26 N. C.
John Calvin Packard,	*Bournedale, Mass.*	10 O. H.
§ Herbert Eugene Peck,	*N. Chatham, N. Y.*	X. Ψ. *House.*
George Avery Rich,	*Weymouth, Mass.*	A O. H.
† Edward Bennett Rosa,	*Wellsville, N. Y.*	Δ. K. E. *House.*
Charles Scott, Jun.,	*Philadelphia, Pa.*	A. Δ. Φ. *House.*
Jeremiah Malachy Sheehan,	*Hazardville.*	28 N. C.
Rollin Smith,	*Evans Mills, N. Y.*	16 N. C.
Charles Edward Spaulding,	*Charlestown, Mass.*	X. Ψ. *House.*
Cyrus John Strong,	*Madison, N. J.*	*106 William St.*
Edward Cooke Strout,	*Livermore Falls, Me.*	9 O. H.
James Monroe Taber, Jun.,	*Vineyard Haven, Mass.*	36 N. C.
Howard Ridgway Vaughn,	*New Egypt, N. J.*	*7 Wyllys Av.*
George Phelps Wardell,	*New Britain.*	30 N. C.
Frank Edwin Williams,	*North East, Md.*	10 O. H.
William Henry Woodbury, Jun.,	*Stamford.*	*114 High St.*
Bertha Bass,	*Rochester, N. H.*	*120 High St.*
Helena Lovina Day,	*Waltham, Mass.*	*135 High St.*
Lillie Blanche Mathewson,	*St. Johnsbury, Vt.*	*135 High St.*

* Deceased.

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Walter Russell Breed,	*Lynn, Mass.*	62 N. C.
William Lewis Brewster,	*New York, N. Y.*	A. Δ. Φ. *House.*
§ Harry Breneman Bruner,	*Columbia, Pa.*	*108 William St.*
Buel Owen Campbell,	*St. Albans, Vt.*	*93 High St.*
Dwight Friend Carroll,	*Yalesville.*	23 N. C.
Herbert Edgar Cobb,	*Searsmont, Me.*	48 N. C.
Jacob Augustus Cole,	*Tottenville, N. Y.*	Δ. K. E. *House.*
Henry Buckley Coons,	*Catskill, N. Y.*	48 N. C.
§ Edward Everett Cornwall,	*Portland.*	X. Ψ. *House.*
Russll Hubert Croxford,	*E. Dixmont, Me.*	*111 Court St.*
Jason Fremont Defandorf,	*Hyndsville, N. Y.*	32 N. C.
§ Edwin Fish,	*Trinidad, Col.*	X. Ψ. *House.*
George Francis Flynn,	*E. Brookfield, Mass.*	X. Ψ. *House.*
Edmund Richard Foley,	*Southington.*	*11 Wyllys Av.*
Robert Lewis Gilbert,	*Derby.*	54 N. C.
§ Harold Charles Hutchison,	*Harrisburg, Pa.*	17 N. C.
George Arthur Ingalls,	*Sandy Hill, N. Y.*	34 N. C.
Howard Osman Lantz,	*York, Pa.*	11 S. C.
John McMurray,	*Elizabeth, N. J.*	*14 Grand St.*
Elmer Frederic Newell,	*Mapleville, R. I.*	58 N. C.
Edward Summerfield Ninde,	*Topeka, Kansas.*	*98 College St.*
Harvey Hallet Paine,	*Centreville, Mass.*	
Edward Evans Pixley,	*Leyden, Mass.*	14 N. C.
Ralph Hayward Pomeroy,	*Brooklyn, N. Y.*	37 N. C.
† William Trafton Randall,	*Middletown.*	*112 High St.*
Frank Henry Richmond,	*Ellenburgh, N. Y.*	14 N. C.
Herbert Dwight Rockwell,	*N. Adams, Mass.*	B O. H.
Joseph Chapin Rockwell,	*N. Adams, Mass.*	B O. H.
§ Odell Seymour Smith,	*New York, N. Y.*	A. Δ. Φ. *House.*

NAMES.	RESIDENCES.	ROOMS.
Charles Henry Stackpole,	*Auburn, Me.*	*7 Wyllys Av.*
§ David Holden Stafford,	*Brandon, Vt.*	Δ. K. E. *House.*
† Millard Fillmore Steelman,	*Atlantic City, N. J.*	60 N. C.
James Madison Stevens,	*Chester, Pa.*	44 N. C.
Carlos Hotchkiss Storrs,	*Seymour.*	54 N. C.
§ Samuel Newton Taylor,	*Farmingdale, N. Y.*	A. Δ. Φ. *House.*
Albert Welcome Thayer,	*E. Blackstone, Mass.*	Δ. K. E. *House.*
Calvin Spencer Videon,	*Windsor Locks.*	60 N. C.
Herbert Welch,	*New York, N. Y.*	*11 Wyllys Av.*
George William Wood,	*Haddam.*	*112 High St.*
Robert Louis Zink,	*West Stratford.*	58 N. C.
§ Jessie Innes Inglis,	*Middletown.*	*120½ Main St.*
Katie Griffing Pike,	*Middletown.*	*10 College Place.*
Jennie Van Vleck,	*Middletown.*	*76 Church St.*

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
George Irving Abbott,	*Hannibal, N. J.*	11 N. C.
Frederic Gibbs Axtell,	*Milford.*	*75 High St.*
Harry Harvey Beattys,	*Brooklyn, N. Y.*	62 N. C.
† John Law Bridge,	*Hazardville.*	50 N. C.
William Evans Bruner,	*Columbia, Pa.*	*108 William St.*
William Lewis Bulkley,	*Greenville, S. C.*	12 N. C.
Edward Washington Burke,	*Harrington, Del.*	*8 Wyllys Av.*
Henry William Camier,	*Middletown.*	6 N. C.
William Morton Cassidy,	*E. Boston, Mass.*	27 N. C.
† William Lawrence Clarke,	*Mt. Kisco, N. Y.*	43 N. C.
Charles Phillips Cooper,	*Canandaigua, N. Y.*	44 N. C.

NAMES.	RESIDENCES.	ROOMS.
Ernest Russell Deane,	*Edgartown, Mass.*	61 N. C.
§ Harvey William Fellows,	*Troy, N. Y.*	37 N. C.
William Elliott Foster,	*Middletown.*	*90 Court St.*
William Clark Gordon,	*Oxford, Mass.*	27 N. C.
§ Henry Pinnie Griffin,	*Granby.*	5 O. H.
Roland Wilkins Guss,	*Philipsburg, Pa.*	35 N. C.
Morton Lee Hall,	*Bakersfield, Vt.*	X. Ψ. *House.*
George Dempster Hamlen,	*Central Falls, R. I.*	Δ. K. E. *House.*
Frederic Hobart Lawrence Hammond,	*Ansonia.*	A. Δ. Φ. *House.*
Howard Hornbeck Hawxhurst,	*Shandaken, N. Y.*	30 N. C.
Fred Alexander Hillery,	*Montpelier, Vt.*	Ψ. Υ. *House.*
Thomas Arthur Humason,	*New Britain.*	30 N. C.
Robert Seney Ingraham,	*Brooklyn, N. Y.*	*75 High St.*
• Arthur Wilson James,	*E. Rush, Pa.*	A. Δ. Φ. *House.*
William Avery Knox,	*Brewster, N. Y.*	12 N. C.
Joseph Ward Lewis,	*Gt. Barrington, Mass.*	17 O. H.
Harry Keiser Munroe,	*Hackettstown, N. J.*	*112 High St.*
Theophilus England Niles,	*Palenville, N. Y.*	64 N. C.
† Charles Pomeroy Opdyke,	*Middletown.*	52 N. C.
Gordon Brainerd Pike,	*Middletown.*	*10 College Place.*
§ George Levi Rice,	*Tinmouth, Vt.*	Δ. K. E. *House.*
§ Herbert Lowell Rich,	*Weymouth, Mass.*	A O. H.
Theodore Richards,	*Brooklyn, N. Y.*	50 N. C.
§ Frank Elwood Sanford,	*Edinburg, O.*	*112 High St.*
William Barnard Smith,	*Pearsall's, N. Y.*	A. Δ. Φ. *House.*
† Aaron Lewis Treadwell,	*Redding.*	64 N. C.
† Jordan Coveydogue Wells,	*Brooklyn, N. Y.*	10 N. C.
Thomas Dudley Wells,	*Belmont, N. H.*	Ψ. Υ. *House.*
§ Marcus White,	*Farnumsville, Mass.*	5 O. H.
Wesley Ellsworth Woodruff,	*Wilkesbarre, Pa.*	52 N. C.
§ Alice May Hotchkiss,	*Middletown.*	*31 Church St.*
Mary Mendall,	*Brooklyn, N. Y.*	*135 High St.*
Kate Bertha Mitchell,	*Remsen, N. Y.*	*76 Church St.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
Dudley Chase Abbott,	*Cheshire.*	23 N. C.
Edward Everett Abercrombie,	*Worcester, Mass.*	57 N. C.
Dubois German Atkins,	*Clintondale, N. Y.*	45 N. C.
Arthur Newell Burke,	*Norwich.*	*19 Wyllys Av.*
§ Dale Dudley Butler,	*Middletown.*	*85 Church St.*
§ Henry Havens Chatfield,	*Bridgehampton, N. Y.*	57 N. C.
Seward Vincent Coffin,	*Middletown.*	*112 Main St.*
John Havemeyer Daniels,	*Dover, N. J.*	*7 Wyllys Av.*
Fred Morgan Davenport,	*New Milford, Pa.*	*106 High St.*
Bernard Marcus Davis,	*Seymour.*	*19 Wyllys Av.*
Orren Madison Donaldson,	*Lyndon, Vt.*	39 N. C.
John Wesley Dutton,	*So. Walden, Vt.*	39 N. C.
§ William Bradford Eaton,	*Waltham, Mass.*	33 N. C.
Julius Wilbur Eggleston,	*Birmingham.*	31 N. C.
§ Fred Beauregard Faber,	*Seymour.*	63 N. C.
Henry Floy,	*Elizabeth, N. J.*	*3 College Place.*
Willie Irving Ford,	*Ballouville.*	63 N. C.
George Washington Gardiner,	Jr., *Lafayette, R. I.*	53 N. C.
Mark Willson Gill,	*Portland, Or.*	9 S. C.
§ George W. Meek Glenn,	*Fillmore, Pa.*	51 N. C.
Ernest Lincoln Hamlin,	*Meriden.*	X. Ψ. *House.*
Herbert Augustus Hill,	*Bridgeport.*	25 N. C.
George Mead Hughes,	*Orange, N. J.*	*102 William St.*
† James Alonzo Hulse,	*Amityville, N. Y.*	X. Ψ. *House.*
§ Orville Edson Johnson,	*Stoneham, Mass.*	55 N. C.
§ Percy Lincoln Johnson,	*Easton.*	33 N. C.
Ayskeh Kabayama,	*Tokio, Japan.*	D O. H.
Fred Barnum Keller,	*Pine Plains, N. Y.*	X. Ψ. *House.*
§ George Frederic Kettell,	*Brooklyn, N. Y.*	*77 High St.*
Samuel Gail Landon,	*Rummerfield, Pa.*	*106 High St.*

NAMES.	RESIDENCES.	ROOMS.
Seymour Landon,	*Bordentown, N. J.*	9 S. C.
§ Joseph B. Long,	*Middletown.*	61 N. C.
John Elijah Loveland,	*Middletown.*	*39 Broad St.*
§ George Elbert Manchester,	*West Winsted.*	31 N. C.
Henry Frank Mandeville,	*Brooklyn, N. Y.*	9 S. C.
Arthur Herbert Meritt,	*West Eaton, N. Y.*	25 N. C.
† Rowland Franklin Miles,	*Northport, N. Y.*	*102 William St.*
Lyon Levi Norton,	*Stark, Me.*	59 N. C.
William Latham Osterhout,	*West Chenango, N. Y.*	11 N. C.
Wendell Phillips Parker,	*North Gorham, Me.*	59 N. C.
Arthur W. Partch,	*Hiawatha, Kan.*	8 N. C.
William Claflin Prentice,	*Middletown.*	*1 Wyllys Av.*
William Emory Smyser,	*Danville, Pa.*	51 N. C.
§ Charles Wardell Stiles,	*Hartford.*	43 N. C.
Jared Sweet Tillinghast,	*Middletown.*	*77 High St.*
† Fred Thomas Tateum,	*Worcester, Mass.*	34 N. C.
§ Charles Perley Tinker,	*New London.*	C O. H.
Everett Hustis Travis,	*Poughkeepsie, N. Y.*	45 N. C.
Fred Van Dorn,	*Mount Morris, N. Y.*	8 N. C.
§ Willard Ives Warriner,	*Port Washington, N. Y.*	55 N. C.
§ Walter Wesley Winans,	*Bound Brook, N. J.*	37 N. C.
John Quinby Wood,	*Bucksport, Me.*	*19 Wyllys Av.*
† Alfred Northam Wright,	*Essex.*	52 N. C.
§ Elizabeth Arbuckle Craig,	*Middletown.*	*18 Hubbard St.*
§ Mary Graham,	*Brooklyn, N. Y.*	*120 High St.*

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Frederick William Lange,	*Scranton, Pa.*	35 N. C.
Charles Horace Talmage,	*Higganum.*	23 N. C.
Harriette Emily Gaylord,	*E. Granby.*	*135 High St.*
Lillian Vernon,	*Rome, Italy.*	*1 Pearl St.*

Summary.

GRADUATE STUDENTS,	2
SENIORS,	45
JUNIORS,	43
SOPHOMORES,	44
FRESHMEN,	55
SPECIAL STUDENTS,	4
TOTAL,	193

Abbreviations.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three regular courses of study, extending through four years, and named respectively the Classical, Latin-Scientific, and Scientific Courses.

The Classical Course comprises that range of studies which is usually included in the college curriculum. The other two courses are designed to secure to those whose circumstances or tastes prevent an extended study of the ancient languages, an opportunity to acquire a sound mental training and liberal culture, as well as a good preparation for advanced courses of scientific or technical study. In the Latin-Scientific Course, the Greek, and in the Scientific Course, the Greek and the Latin, of the Classical Course are replaced by Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above Courses, all of the studies of the first two years are required, except that the Classical Sophomores have the option between French and German, and the Latin-Scientific Sophomores, the option between Latin and French. In the last two years, from one-fifth to one-half of the work is required, the student being allowed to complete his quota by selecting from a wide range of elective studies.

In the choice of these electives, the student is encouraged to exercise prudence and deliberation, and especially to regulate his choice so that his electives will together form a harmonious and consistent course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

The allotment of the subjects of study in the several Courses is set forth in the following schedules, in which the time devoted to all of the studies of each Course during the four years is taken at 100.

DISTRIBUTION OF REQUIRED AND ELECTIVE STUDIES IN THE CLASSICAL, LATIN-SCIENTIFIC, AND SCIENTIFIC COURSES.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Ancient Languages,	22	19	6	12	—	—
Modern Languages,	4*	16	8	12	16	4
Rhetoric and English Literature,	4	12	4	12	4	12
Logic, Psychology, and Ethics,	7	8	7	8	7	8
History and Political and Social Science,	6	8	6	8	5	8
Mathematics,	12	4	12	4	4	4
Physics and Astronomy,	8	16	8	16	12	12
Chemistry,	3	12	3	12	7	12
Biology,	3	14	3	14	9	12
Geology, Mineralogy, and Physical Geography,	3	9	3	9	4	8
Total for each student in four years,	72*	28	60	40	68	32

*Option is allowed between French and German. If these should therefore be counted as elective, the amount of the required studies would become 68.

The numbers opposite each group of studies in the columns headed "Required" indicate the percentages which the required studies of that group form of the whole work of the several Courses. The same numbers for the electives indicate the amounts offered in the several departments. From these electives each student selects enough to make, with the required studies of his Course, his whole quota of 100.

The distribution of the required and elective work in each of the four years is shown on the next page.

PROPORTIONS OF REQUIRED AND ELECTIVE WORK FOR EACH YEAR IN EACH COURSE.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Freshman Year,	25	None.	25	None.	25	None.
Sophomore "	21	4*	21	4	25	None.
Junior "	13	12	5	20	9	16
Senior "	9	16	9	16	9	16
Total, four years,	68	32	60	40	68	32

*Option between French and German, one of which is required.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood, that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

POST-GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue post-graduate courses of study in any of the departments.

Terms of Admission.

CLASSICAL COURSE.—Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN.—Candidates are examined in either of the following courses, according to their option:—

I. Cæsar, Gallic War, books I., II.; Vergil, Æneid, books I. to VI. inclusive, Eclogues, Georgics; Cicero, eight orations; Latin Grammar, including Prosody; translation into Latin of simple English sentences and easy narrative based on the prose authors read.

Candidates are also allowed at the option of the examiner to substitute translation at sight from the authors specified in Course II. for some of the passages set from the authors required in Course I., and it is especially urged that systematic practice in accurate sight-reading be made a part of the preparatory training from the very first.

II. Translation at sight of passages from Cæsar, Cicero's Orations, Vergil, Ovid's Metamorphoses, Sallust, and Cornelius Nepos; Latin Grammar and Composition as in Course I.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *aye*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *haphazard* and *boathook*; other consonants as in English.

GREEK.—Candidates are examined in either of the following courses according to their option:—

I. Four books of Xenophon's Anabasis; three books of Homer's Iliad; Hadley-Allen's or Goodwin's Greek Grammar; simple sentences in Greek Prose Composition.

Candidates in Course I. may substitute the translation of a prose passage at sight as the equivalent of one of the passages set for the examination in the Anabasis. It is very desirable that all candidates shall have had training in translation at sight.

II. Translation at sight of average passages from Xenophon and from the Iliad (the candidate being supplied with a vocabulary of the less usual words). Greek Prose composition and Grammar as in Course I.

HISTORY AND GEOGRAPHY.—History of Rome, to the death of Marcus Aurelius; History of Greece, to the death of Alexander; Ancient Geography. The amount of historical knowledge required for this examination may be obtained from the following books:—

Smith's Smaller History of Greece; Leighton's History of Rome. Tozer's Primer of Ancient Geography is recommended as the basis for instruction in Ancient Geography, and familiarity with map-drawing is especially desirable.

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures; 2. Algebra, through Quadratic Equations,—including Arithmetical and Geometrical Progressions, and the use of the Binomial Formula for positive integral exponents; so much, for example, as is contained in the first seven books of Newcomb's Algebra for Colleges, or in the first eighteen chapters of Loomis's Treatise on Algebra; 3. Plane Geometry, so much as is contained in the first five books of Chauvenet's or Wentworth's Geometry, or the first six books of Newcomb's Geometry.

ENGLISH.—Each candidate will be required to write a short English composition, correct in punctuation, division into paragraphs, spelling, grammar, and expression, upon a subject announced at the time of the examination. One hour will be given to this exercise. In 1886, the subject will be taken from one of the following works:—Shakspere's Julius Cæsar, and Macbeth; the first two books of Milton's Paradise Lost; Dickens' Tale of Two Cities; Scott's Abbot; Pope's Rape of the Lock; Lowell's Vision of Sir Launfal; Goldsmith's She Stoops to Conquer.

In 1887, the subject will be taken from the following:—Shakspere's Julius Cæsar, and Merchant of Venice; Johnson's Lives of Milton and Dryden; Macaulay's Essays on Milton and Dryden; Milton's Paradise Lost, Books I. and II.; Dryden's Alexander's Feast; Scott's Quentin Durward; Irving's Bracebridge Hall.

In 1888, it will be taken from the following:—Shakspere's Julius Cæsar and Twelfth Night; Johnson's Lives of Addison and Pope; Thackeray's English Humorists; Dobson's Eighteenth Century Essays; Pope's Rape of the Lock, and Essay on Criticism; Miss Austen's Pride and Prejudice; Irving's Bracebridge Hall; Macaulay's Lays of Ancient Rome.

In 1889, it will be taken from the following:—Shakspere's Julius Cæsar and As You Like It; Johnson's Lives of Swift and Gray; Thackeray's English Humorists; Swift's Gulliver's Travels; Gray's Elegy; Miss Austen's Pride and Prejudice; Scott's Marmion and Rob Roy.

Each candidate will be required to criticise specimens of English given him at the time of the examination. Half an hour will be given to this exercise.

LATIN-SCIENTIFIC COURSE.—Candidates for the Latin-Scientific Course will be examined in all of the above subjects, except Greek.

SCIENTIFIC COURSE.—Candidates for the Scientific Course will be examined in the following books and subjects:—

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures. 2. Algebra, through the Theory of Equations, so much as is contained in Newcomb's Algebra for Colleges, or Loomis's Treatise on Algebra. 3. Plane and Solid Geometry, so much as is contained in Chauvenet's Geometry to Appendix I., or in Newcomb's Geometry, omitting the chapters on the Conic Sections. 4. Plane and Spherical Trigonometry, with the use of Logarithmic and Trigonometric Tables, so much as is contained in Wheeler's Elements of Trigonometry.

ENGLISH.—Same requirements as for Classical Course.

SPECIAL COURSES.—Special Students, not candidates for a degree, may be admitted upon passing such examination as the Faculty shall in each case prescribe.

In 1887 and thereafter, candidates for the Latin-Scientific and Scientific Courses will be examined in French or German as each candidate may elect. Such a knowledge of the language will be required as will enable the candidate to read easy passages at sight.

No one can be admitted to the Freshman Class under the age of fifteen years, or to an advanced standing without a corresponding increase of age.

All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

A student who has accomplished half or more of the preparatory course, may be examined on that part, and receive credit therefor. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

The regular examination for admission is held on the Friday and Saturday of Commencement week. All candidates must be present at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the Fall Term.

Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided that they make application to the President before June 1st. The time of these examinations will be Thursday

and Friday of Commencement Week. But, if no applications are received before June 1st, these examinations will not be held.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

DEPARTMENTS OF INSTRUCTION.

LATIN.

PROFESSOR HARRINGTON (EMERITUS); MR. MERRILL; MR. TRUE.

The system of pronunciation exclusively used is the Roman, a general scheme of which is given on page 20.

The courses of instruction given the present year are here stated in outline. A considerable re-arrangement, chiefly in the elective courses, will probably be made for the coming year. As now constituted, Course I. is required of Freshmen in the Classical and Latin-Scientific Courses; Course II. is required of Sophomores in the Classical Course, and elective for all students in the Latin-Scientific Course who have taken Course I.; Course III. is elective for all who have taken Courses I. and II.; and Course IV. is elective for all who have taken the other three courses.

I. Livy, books 21 and 22, with parallel readings from Polybius in translation. Four times a week during the first term.

Horace, Epodes, Satires, Odes, and Epistles. Four times a week during the second and third terms.

Ihne's Early Rome, with courses of collateral readings on special topics. Weekly throughout the year.

A course of weekly readings on the development of the Roman constitution will be given during the second term on special application.

II. Plautus, Captivi, and Terence, Andria. Twice a week during the first term.

Cicero, De Officiis. Twice a week during the second term.

Tacitus, Agricola and Germania. Five times a fortnight during the third term.

Lectures on the Private Life of the Romans. Fortnightly during the first and second terms.

Readings from other plays of Plautus are also open to all who desire to attend.

III. Tacitus, Agricola and Germania; Pliny, Selections from the Letters. Five times a fortnight during the first term. (The Agricola and Germania of Tacitus have this year been permanently transferred to Course II., and will hereafter be dropped from Course III.)

Catullus and Propertius, Selections. Five times a fortnight during the second term.

Quintilian, Selections from the Institutes. Five times a fortnight during the third term.

Course III. is elected this year by six.

IV. Tacitus, Histories, books 1 and 3. Twice a week during the first term.

Lucretius, books 1, 3, and 5. Twice a week during the second term.

Seneca, De Brevitate Vitæ and De Vita Beata. Twice a week during the third term.

Specimens of Early Latin Inscriptions, with a course of preliminary lectures on Latin forms. Fortnightly throughout the year.

Course IV. is elected this year by five.

GREEK.

PROFESSOR VAN BENSCHOTEN; MR. TRUE.

REQUIRED COURSES.

FRESHMEN.—*Fall Term.*—Herodotus. Special attention to Morphology and Etymology.

Winter Term.—Thucydides; Syntax, with Prose Composition based on narrative portions of the author read.

Spring Term.—Homer's Odyssey; Prosody; Lectures on Greek Life, with illustrations from original sources.

Throughout the year considerable time is given to sight-reading, and students are encouraged to read large amounts with as little use of lexicon and grammar as possible. In recitation, accuracy of translation and good English are required. Throughout the year Greek History is read outside the class-room, and the examinations in this subject are intended to test the ability of the student to read for information rather than for recitation.

Five hours a week.

SOPHOMORES.—*Fall Term.*—Aeschines and Demosthenes on the Crown. Lectures on the Athenian Constitution and Politics, and the Greek Orators. The reading required includes Butcher's Demosthenes, and at least one oration of Burke and Cicero.

Winter Term.—Greek Drama: Aeschylus, Prometheus Bound; Sophocles, Oedipus Tyrannus. Lectures with illustrations, on the Greek Theatre and its appointments. The reading includes a primer of Greek Literature and a play of Shakspere.

Spring Term.—Plato's Euthyphro, Apologia, Crito, Phaedo. Lectures on Greek Philosophy. Rapid translation, with attention to the style and thought of the author. The reading includes introductory chapters of Grote's Plato.

During Sophomore year the cultivation of the "sense of style" and the ability to appreciate Beauty in literature is especially aimed at.

Five hours a fortnight.

ELECTIVE COURSES.

JUNIORS.—I. Xenophon's Memorabilia, Plato's Republic, Greek Comedy, Pausanias and Strabo. Lectures on Topography, Geography, and Art. Comparative Grammar. This course is intended for those who desire a wider acquaintance with Greek literature and a more technical knowledge of Grammar and the details of interpretation.

Five hours a fortnight. Number in class, twenty-five.

II. Greek Testament and Septuagint; Greek Fathers. This course provides an introduction to the critical study of New Testament Greek. Especial attention is given to methods of interpretation and to the history of the manuscripts.

Five hours a fortnight. Number in class, fourteen.

SENIORS.—Greek Lyric Poetry: Buchholz's Anthology, including Pindar; Aristotle's Ethics or Poetics; Lectures on Greek Metre, Poetical Composition, the Philosophy of Plato and Aristotle. This course is intended for those who have already taken Junior I.

Five hours a fortnight. Number in class, eleven.

MODERN LANGUAGES.

PROFESSOR PRENTICE.

Sophomores in the Classical Course are required to pursue one Modern Language, but allowed to choose either French or German as they prefer. The present year twelve take French, and twenty,

German. In the Latin-Scientific and Scientific Courses, French is required in the Freshman year, and German in the Sophomore year.

The work in German for Sophomore year will embrace the twenty lessons outlined in the preface of Whitney's German Grammar. Then will begin readings in Whitney's German Reader. With the readings will be assigned daily a part of the passages for translation into German of the second and third series in the supplement to the Grammar. The sentences will be put upon the black board for criticism and correction. After the first examination, special attention will be given to gaining a mastery of the irregular verbs and the rules for the gender of the nouns.

The work in German for Junior year will cover Sesenheim in Hart's Goethe's Prosa, Schiller's Wilhelm Tell, Buchheim's edition, Lessing's Minna Von Barnhelm, Whitney's edition, and Goethe's Iphigenie auf Tauris, Carter's edition. In connection with this reading there will be systematic sight-readings from Stern's Select German Comedies. Grammatical work will be connected with the course of reading. Special attention will be paid to the sections of the Grammar which treat of the construction and order of sentences and the law of Progression of Mutes (sections 426 to 462.)

The work for Sophomore year in French will embrace Part First of Otto's French Grammar. Then will begin readings in Voltaire's Louis XIV., edition of Masson and Prothero. In connection with the readings, parts of Harrison's French Syntax will be assigned the class for study. Various exercises based on the readings will be given in each recitation.

The work for Junior year in French will include readings from Alliott and Boymier's Auteurs Contemporains, Moliére's Le Misanthrope, Brette's edition, Corneille's Horace, D'Harleville's Le Vieux Cèlibataire, the Pitt Press edition, Sainte Beuve's M. Daru, the Pitt Press edition.

There will be sight-readings from Auteurs Contemporains, the College Series of French Plays, or Knapp's French Readings.

The sections of Harrison's French Syntax that treat of negation, the uses and succession of the moods, and prosody, will be carefully studied in connection with the readings.

The work of the Senior year in German will include the reading of Schiller's Wallenstein Trilogy, Lessing's Nathan der Weise, and Goethe's Faust. Each play will be studied so as to connect it with the general literary movements of its time, as well as with the personal career of its author. Lectures will be given on the personal and

literary history of every author read. An attempt will be made to appreciate the value of the most enlightened criticism to which these dramas have been subjected.

Rhetoric and English Literature.

PROFESSOR WINCHESTER; MR. TRUE.

I. *Freshman Year.*—During the Freshman year the object of the instruction in this department is to give the class some knowledge of the outlines of the history of our language, and to awaken some interest in its study. To this end, a course of simple lectures is given in the fall term, recounting the main facts concerning the rise and early history of the language, and these lectures are accompanied and followed by recitations from the class upon Trench's "English Past and Present." The class meets for this exercise but once a week.

II. *Sophomore Year.*—The study assigned to the Sophomore year, in this department, is Rhetoric. The class meets on alternate days through half the year. The text-book used is A. S. Hill's Manual of Rhetoric. The study of the text-book, however, forms only a part of the work of the class. The members of the class are required to write occasional exercises illustrating and applying the principles laid down in the text-book; these principles are also applied in the public criticism of their regular essays, written once in three weeks; and, finally, they read, in connection with their rhetorical study, two or three specimens of the best modern English prose, criticise and discuss them in the class, and compare them to discover the characteristic excellences and defects of each. The writings selected for such readings and criticism this year are Macaulay's Life of Johnson, Carlyle's Essay on Johnson, and Thackeray's Lectures on the English Humorists.

III. *Junior Year.*—The study of English Literature is optional during the Junior and Senior years. The Junior class, the present year—open, like all Junior elective classes, to Seniors as well as Juniors—contains 1 Graduate Student, 5 Seniors, 32 Juniors, and 2 Special Students. It meets on alternate days throughout the year. The work of this class may be divided into three parts.

1. It is desired, in the first place, that the student should obtain a knowledge of the main facts in the *history* of our literature. For this purpose, the class reads, for regular recitation, Stopford Brooke's

"Primer of English Literature." The lessons assigned from it are made very short, partly that there may be an opportunity, during the hour of recitation, for discussion and frequent half-hour lectures, and partly that members of the class may find time to devote to the other portions of the work described below.

2. It is desired, secondly, that the class shall during the year read critically at least two or three representative specimens of our best literature. The last recitation of each week is given to this exercise. The works selected this year are Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale, two cantos of Spenser's Faery Queen, Shakspere's Hamlet, and selections from Pope's Satires. Members of the class are expected to inform themselves upon the history of these writings and upon the life and times of their authors, and to read them with minute care in preparation for the recitation and criticism of the class-room. Four or five lectures upon these selected authors are read by the Professor before the class.

It is hoped that this careful study of the literature itself in some of its best specimens may not only educate the taste and stimulate an interest in the highest literature, but may also cultivate that habit of thorough and critical reading needful for the appreciation of what is best in letters.

3. The third part of the work of this class is a brief course of collateral reading. Several different courses are laid out by the Professor at the beginning of the year, from which each member of the class must select one. Each course contains a few of the most representative writings of a limited period. The courses for the present year are five, as follows:

COURSE I. Marlowe's Faustus and Green's Friar Bacon; Shakspere —four plays and ten sonnets; Bacon's Essays—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost, Book I., Samson Agonistes.

COURSE II. Johnson's Lives of Milton, Dryden, Swift, Addison, Pope, and Gray; Milton's Comus and Paradise Lost, Book I.; Dryden's Absalom and Achitophel; Swift's Tale of a Tub, Journal to Stella, letters I.–XII; Addison's Spectator—25 selected papers; Pope's Rape of the Lock; Gray's Elegy.

COURSE III. Thackeray's Lectures on Swift, Addison, Steele, Prior, Gay, Pope, Sterne, and Goldsmith; Swift's Tale of a Tub, Battle of the Books, Journal to Stella, letters I.–XII.; Addison's Spectator—20 selected papers, Arnold's edition; Steele's Tatler—12 selected papers, Dobson's edition; Goldsmith's Deserted Village,

Retaliation, and Vicar of Wakefield; Leslie Stephen's Johnson, chaps. iii., iv.

COURSE IV. Leslie Stephen's Johnson, chaps. iii., iv.; Macaulay's Life of Johnson; Johnson's Rasselas and Vanity of Human Wishes; Cowper's Task, Book I.; Burke's two American Speeches, Reflections on the Revolution in France—the first half, Letter to a Noble Lord; Burns—selected poems.

COURSE V. Burns—selections; Wordsworth—selected poems in Arnold's edition; Shelley—selected poems in Stopford Brooke's edition; Keats' Hyperion, Odes, and Sonnets; Byron—one canto of Childe Harold; Lamb—selections from the essays of Elia; De Quincey's Recollections of Lamb and Wordsworth, Suspiria de Profundis; Shairp's Essay on Wordsworth.

With each of these courses is given to the student a short list of the books which he may consult with advantage for the history and criticism of the literature which he is reading. It is believed that such a brief course of reading not only cultivates a taste for what is best in letters, but also gives the student an intelligent notion of the relations of literature to the social and political history of the period in which it was produced, such as he could hardly gain from a text-book. The care with which the reading is done is tested by a series of written examinations held at stated intervals throughout the year.

IV. In the Senior year an advanced class in English Literature is formed, open only to a limited number of those who have pursued in the Junior year the course just described. This class numbers this year 14 Seniors; it recites two hours a day on alternate days throughout the year. The object of the study of this class is to gain a somewhat thorough knowledge of the literature of some brief period. The period chosen for the study of the present year is that embraced between the years 1789 and 1832. A course of lectures is given the class, during the first six weeks of the term, upon the history of this period, especially in its relations to literature. Then the principal works of Burke (after 1789), Burns, Wordsworth, Coleridge, De Quincey, Lamb, Scott, Byron, Shelley, and Keats are divided among the members of the class for reading. They read these works, and, in turn, present before the class careful analyses and full discussions of what they have read. In this manner every member of the class either reads himself or hears discussed at length nearly every one of the most important specimens of our literature during the period studied. The regular discussions of the class-room are supplemented by a course of lectures upon the period. The class are required to

take notes of all discussions, and the thoroughness with which the work is done is tested by a series of written examinations.

V. *English Composition.* The Freshmen present, once in two weeks, exercises in the simpler forms of composition, which are discussed before the class. This work is under the direction of Mr. True. Every member of the Sophomore and Junior classes is required to write nine essays in the year; every Senior must write an argument for debate before his class, and either four essays or two public orations. All these exercises are read and corrected by the Professor of Rhetoric. The Sophomores meet nine times a year for general oral discussion and criticism of their themes; and every member of the Junior class meets the Professor privately, once a term, for individual criticism upon his work.

ELOCUTION.

PROFESSOR HIBBARD.

1. The Freshman, Sophomore, and Junior Classes are required to present declamations, mostly of their own selection, fortnightly.

It is expected of each student that he will make a good variety of selections, chiefly from standard authors.

The classes are divided into sections of ten or twelve each, and the exercise for each section occupies one hour. Criticism is made upon personal defects, and suggestions are given with regard to vocal culture and proper courses of practice.

During the Sophomore and Junior years occasional exercises are required to be taken from some particular author.

The work in this department is largely of a practical character, and aims to preserve and develop in each student, as far as possible, his best personal characteristics as a speaker.

2. To those who desire a more intimate knowledge of the theories of Elocution, this study is made elective in the Junior year. The same rules govern the admission of students to this study as to those in other departments.

The class this year contains 13 Seniors and 10 Juniors.

The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given, and the text book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation to be delivered before the class for criticism. The purpose of the work of this term is to render each student competent to judge correctly of his own expression of thought and feeling, and to intelligently criticise others.

History and Political Economy.

MR. HARRIS.

I. The required studies of this department are, The Constitution of the United States and Political Economy.

1. The Constitution of the United States is taught on alternate days during the second half of the Junior year.

Effort is made to make clear the distinction between constitutional and statute law, and to fix in the memory the precise provisions of the Constitution. To the text book are added oral explanations by the instructor, on the meaning and history of particular clauses, and on the development of the two great schools of constitutional interpretation. Accounts of the Convention of 1789, parts of its journal and some papers from the Federalist are read.

2. Political Economy is taught four days in the week during the second half of the Senior year.

A text book is used, and supplementary lectures on special topics are given from time to time. Special prominence is given to those subjects which are of greatest present interest in the United States. Thought upon the problems of Political Economy is encouraged, and objections to the views presented are welcomed and considered.

II. The elective classes in the department are engaged wholly in the study of History.

1. The Junior elective class meets on alternate days during the year. It is engaged in the study of the History of England. Attention is especially directed to the characteristics of the English people, and to the development of the English constitution. The close connection between English and American institutions and history is pointed out. Green's Short History of the English People is followed as a text-book. Explanations and additions are made in the class. Students are expected to prepare from other sources and present in the class brief papers in which some of the topics shall be more fully treated. The class numbers thirteen.

2. The Senior elective class meets on alternate days during the year. It is engaged in the study of the History of the United States from the close of the Revolution to the beginning of the civil war. Constitutional, political, and economical questions chiefly are considered. With this view the lives and writings of some of our eminent statesmen are examined as far as time will allow. These men are studied as centers of the discussion and action of their times.

Hamilton and Webster have been chosen as the two whose lives most nearly cover the portion of our history intended, and who respectively had most to do with shaping and preserving our government.

Lodge's Life of Hamilton, in the "American Statesmen" series, is carefully read by the class and supplemented by statements from the instructor. About half the time is given to the reading and discussion of some of the principal writings of Hamilton. The opinions of contemporaries, such as Jefferson and Madison, upon the same subjects, are presented for comparison.

Frequent examinations are had on the different writings, and a general examination on all is held at the close of a study. All the members of the class are expected to show a good knowledge of these writings, except such parts as are unessential and of temporary interest.

Lodge's Life of Webster, in the "American Statesmen" series, is used as a guide in studying the times and questions with which Webster was connected. A course of reading, intended to give an idea of the discussions of his time, is pursued. The method is the same as that described above in connection with Hamilton. The class numbers twenty-seven.

III. Students who are candidates for a special honor in History, meet the instructor regularly for report, consultation, discussion, etc. The class numbers seven.

MENTAL PHILOSOPHY.

MR. SNEATH.

The instruction given in this department includes Logic, Psychology, and the History of Philosophy.

I. LOGIC.

1. *To the Sophomores.*—The instruction in this class is confined to the simple elements of the science as generally accepted by the best writers on the subject. Special attention is directed to the analysis of arguments and special drill is given in the detection of logical fallacies. This is a required study; the class meets five hours a fortnight for the last half of the year. The text-book used is Jevons' Elements of Logic.

2. *To an Elective Class of Juniors.*—This class meets five hours a fortnight throughout the year. The object with this class is two-fold:

A. To examine critically the different theories of Logic, and to set forth the true philosophic explanation of the reasoning process.

B. To show how the true theory is to be applied to the various departments of knowledge, if our reasoning is to be valid. Discussions by the members of the class are frequent. Mill's system of Logic and Jevons' Principles of Science are the chief works on the subject used by the student. The class this year numbers twelve.

II. PSYCHOLOGY.

This is a required study with the Junior Class. The class meets five times a fortnight the first half of the year. After setting forth the relation of Psychology to other sciences, a careful examination is made into the nature and faculties of the soul; its relation to the body; the facts, modes and laws of the various mental operations. A careful study of the physical basis of the mind, and a candid consideration of the materialistic argument, are part of the work of this class. Porter's Elements of Intellectual Science is the text-book used by the class.

III. HISTORY OF PHILOSOPHY.

This is an elective study for the Seniors. The work in this course consists of a survey of the development of philosophic thought from its beginnings down to recent times; examining the content, internal connection and historical position of the various systems of Philosophy. In the history of Ancient Philosophy a presentation of the

Platonic Philosophy and portions of the Aristotelian Philosophy is given by expository lectures. In the History of Modern Philosophy special attention is given to the consideration of the Kantian Philosophy. The work of the year closes with several lectures on the tendencies of philosophic thought in England and Germany to-day. The course of instruction continues through the year, the class meeting five times a fortnight. The text-book used is Schwegler's History of Philosophy. The class this year numbers twenty-four.

Moral Philosophy and Christian Evidences.

PRESIDENT BEACH.

Moral Philosophy is a required study during the first term of the Senior year. Four exercises a week for twelve or thirteen weeks are given to this study. The student is expected to make himself familiar with the plan and principles of whatever text-books are adopted, and to be at any time ready to give a clear and comprehensive outline of his studies. He is, however, not the less expected to do much thinking of his own, and is encouraged and helped to a breadth of study that shall comprehend whatever in theoretical and practical morals the study of the subject should involve. The plan of recitation and discussion followed in the class-room is one intended to put the student into sympathy with the study he is pursuing, and dispose him to those habits of study and thought that will enable him out of himself to derive both his best knowledge and strongest convictions of moral truth and duty. The text-book in present use is Hickok's Ethics, as edited by Seelye.

EVIDENCES OF CHRISTIANITY.—This is a required study for the Senior class. There are four exercises a week for about six weeks. The text-book is Hopkins's Evidences of Christianity. The aim of the instruction here, as in Moral Philosophy, is no more to ensure a mastery of the lines of argument presented in the text-book than to stimulate thought and inquiry in all directions pertinent to the general subject. In recitations and examinations, ability to give an intelligent discussion of the various lines of argument involved in the subject is required, rather than minute familiarity with the text-book.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. WHITE; MR. WOODS.

The courses of instruction in this department are as follows:

REQUIRED COURSES.

Freshman Year.—Solid Geometry; Algebra; Plane and Spherical Trigonometry, with the use of logarithmic tables. Five times a week.

Sophomore Year.—1. Analytical Geometry of two dimensions. Five times a week during the first term.

2. Surveying, including Levelling. Recitations and field-practice, the equivalent of one exercise a week being required of each member of the class.

Senior Year.—A general course in Astronomy, requiring only elementary mathematics. Twice a week.

ELECTIVE COURSES.

Junior Year.—Differential and Integral Calculus. Five times a fortnight. Elected this year by four.

Senior Year.—Spherical and Practical Astronomy. Five times a fortnight, with practical exercises in the observatory. No more than six persons will be admitted to this course, and a previous acquaintance with Differential and Integral Calculus will be required. Elected this year by six.

Text-Books. — Chauvenet's Geometry; Newcomb's Algebra; Wheeler's Trigonometry; Newcomb's Analytical Geometry; Murray's Land-Surveying; Taylor's and Williamson's treatises on Differential and Integral Calculus; Newcomb and Holden's Astronomy; Chauvenet's Spherical and Practical Astronomy.

In addition to the foregoing, the professor of the department will give instruction, during the second and third terms, to such students as may desire it, in Determinants and an advanced course in Analytical Geometry. One hour a week will be devoted to these subjects.

Graduate students and candidates for mathematical honors will also be assisted in their mathematical reading, the times to be determined by mutual agreement. The subject selected for special honors, the current year, is Theoretical Astronomy.

ASTRONOMICAL OBSERVATORY.

The Observatory is used for purposes of instruction, and is well equipped therefor. Members of the Senior Class have frequent op-

portunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical Astronomy are instructed in the theory and use of all the instruments of the Observatory.

The principal instruments are an equatorial of 12 inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture by Fauth & Co.; a prime vertical instrument of the same size and by the same makers; sextants; two astronomical clocks, a chronometer, and a chronograph.

PHYSICS.

PROFESSOR CRAWFORD; MR. WOODS.

The exercises in this department for the current year are as follows:

For the Sophomores, A required course of five hours a week for two terms, consisting of recitations in Deschanel's Natural Philosophy, Parts I., III., and IV., with occasional experimental lectures.

For the Juniors, 1st, An elective course of five hours a fortnight throughout the year, consisting of experimental lectures in Electricity and Heat. The text books used are Thompson's Elementary Lessons in Electricity and Magnetism, Part Second, and Stewart's Elementary Treatise on Heat. Number in class, ten.

2nd. An elective course in Practical Physics. Those who take this elective must work at least two and a half hours consecutively in the laboratory five times a fortnight throughout the year. In this course, the experiments assigned are largely of a character involving accurate measurements, such as those described in Kohlrausch's Physical Measurements or Glazebrook and Shaw's Practical Physics, while many others are added of a simple qualitative nature. Number in class, three.

For the Seniors, An elective course in Practical Physics, being a continuation of the Junior laboratory course, and requiring the same amount of time. Number in class, two.

The department is supplied with apparatus for the illustration of most of the important principles of physics, especially in Electricity, Optics, and Acoustics. The following are some of the principal pieces used in the laboratory:

Cathetometer, by Bamberg of Berlin.

Balance, by Bunge of Hamburg.

Small goniometer, seven inch circle, by Elliott Bros.

Large goniometer, by Hilger, with 18 inch circle (graduated by Troughton & Simms), achromatic and quartz lenses, and automatic minimum deviation attachment.

Two of Rutherford's diffraction gratings.

Diffraction bench, by Duboscq.

Jolly's air thermometer.

Most of the important pieces of Koenig's acoustic apparatus.

Apparatus for electrical measurements, mostly of Elliott Bros.' make, including Thomson's mirror galvanometer, Thomson's quadrant and trap-door electrometers, sine, tangent, and astatic galvanometers, reading telescope, conductivity apparatus, condenser, resistance boxes, Wheatstone's bridge, thermopiles, etc.

The laboratory is connected with the observatory clocks, and has the use of the chronograph and spectroscopes belonging to the astronomical department.

CHEMISTRY.

PROFESSOR ATWATER; MR. ROCKWOOD.

1. ELEMENTARY CHEMISTRY.—This is required for the Juniors of the Classical, the Sophomores of the Latin-Scientific, and the Freshmen of the Scientific, course. It extends through the fall and winter terms, the exercises occurring on alternate days and numbering in all about eighty. The exercises consist of lectures and laboratory practice, with occasional recitations, chiefly written. For the laboratory practice Eliot and Storer's Elementary Manual is used as giving very convenient descriptions of experiments. Each student performs the larger number of the experiments here given and numerous others. Wurtz's Atomic Theory is also used.

2. QUALITATIVE ANALYSIS.—To students in the Scientific course during the last three years, and those in the other courses during the last two years, laboratory chemistry is offered as an elective. It is assumed that the opportunities of the required elementary chemistry will give sufficient drill in the principles of the science and in laboratory practice to enable the student to work understandingly in qualitative analysis, to which the first year's elective work in the laboratory is, in most cases, devoted. The exercises, like those of the other electives, occur five times a fortnight, thus making about ninety

in the year. Each exercise occupies at least two and a half hours. Opportunity for spending a longer time in the laboratory is offered to all and utilized by a considerable number of the students. The usual course of preliminary study of reactions and subsequent analysis of complex substances is pursued. Comparatively little use is made of tables or text-books of qualitative analysis except such as the students prepare for themselves on the basis of their own observations, with the aid, of course, of oral explanations and lectures.

3. QUANTITATIVE ANALYSIS is usually taken up at the beginning of the second year's work in the laboratory. After a series of general exercises for practice, such as are laid down in Fresenius' Quantitative Analysis, the students are encouraged to enter upon special work such as seems desirable in each case. Those who propose to study medicine, for instance, engage in the preparation and determination of the proximate compounds of the body, in urine analysis, or in other work, qualitative as well as quantitative, in physiological chemistry.

ADVANCED CHEMISTRY, THEORETICAL AND PHYSIOLOGICAL.—To students who have completed the elementary chemistry and a year's work in the laboratory, are offered elective courses in theoretical and biological chemistry. The exercises consist in part of laboratory work and in part of readings and essays upon special topics. The classes meet the instructor in a less formal manner than is usual in other subjects. The following special topics are assigned for the current college year:

1. The Atomic Theory. 2. Atomic Weights. 3. Constitution of the Albuminoids. 4. Chemistry of Nutrition. 5. Sources of the Nitrogen of Plants.

In the current year the number of students in analytical chemistry is eighteen, in advanced (theoretical and biological) chemistry three.

Candidates for special honors in chemistry pursue special courses of study and laboratory work cognate with those in advanced chemistry.

GEOLOGY.

PROFESSOR RICE.

The required course in Geology commences near the close of the second term of the Junior year, and continues through the third term. The number of exercises per week is six. Instruction is given chiefly by lectures, Dana's Text-Book being used for reference. The object of this course is to bring the student to an intelligent appreciation of

the general laws and principles of geological science. The problems of dynamical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. Specimens, maps, and diagrams are freely used. During a considerable part of the course, the class is divided into two sections in order to afford a better opportunity for the study of specimens. Illustrations of geological principles are taken, so far as practicable, from localities in the immediate vicinity of Middletown; and occasional excursions are arranged to give a knowledge of local geology, and to teach the student how to observe geological phenomena in general.

There are three elective courses in Geology and its cognate sciences.

I. An advanced course in Geology. Students taking this course must have taken previously the required course in Geology; and it is desirable that they should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy, especially the two former. The first term and the greater part of the second are occupied with informal and conversational recitations in Leconte's Elements of Geology, five times a fortnight. This part of the course is intended to give the student a more complete and comprehensive knowledge of the general principles of the science than can be gained in the required course. The subject of Paleontology, especially, of which only a mere outline is presented in the required course, is treated much more fully. Reference is made continually, in the illustration of the various subjects under discussion, to the reports of geological surveys and other original memoirs. Frequent excursions afford opportunity for practice in observation in the field. The latter part of the year each student is expected to take some special topic for investigation, in the field, the laboratory, or the library, according to the nature of the subject. The class meets occasionally to hear reports of progress from the various members in regard to the topics which each has been studying; and the instructor meets each student as often as may be necessary for direction and assistance in his work. Number of students the present year, four.

II. A course in Physical Geography. Recitations and lectures, five times a fortnight, during the first term. The text-book is Geikie's Elementary Lessons. Number of students, twenty.

III. A course in Mineralogy, five times a fortnight, throughout the year. This course comprises three parts, each occupying approximately one term:—1, a course in crystallography and physical miner-

alogy, in which the instruction is given chiefly by lectures, illustrated by models of crystalline forms and by crystals; 2, a course of laboratory work in determinative mineralogy; 3, a course of lectures on descriptive mineralogy. The lectures on descriptive mineralogy are given in the Museum, so that the characteristics of each important mineral can be illustrated by a full suite of specimens. The works of Dana and Brush are used for reference. Number of students, one.

BIOLOGY.

DR. CONN.

I. PHYSIOLOGY.—A required course in Physiology, three hours a week during the fall and winter terms of the Junior year. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. The object of the course is to give the student a general knowledge of the functions of the various organs of the body in their normal condition. The origin of the energy of the body, its distribution, and final transformations, are treated in accordance with the doctrine of the conservation of energy. Enough anatomy is given to render the physiological discussions intelligible, and enough of hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures.

II. BOTANY.—Begun in the winter term, with Gray's Lessons as a text-book. The text-book lessons are supplemented by lectures which deal with physiological botany, cryptogamic botany, and other subjects not treated in the text-book. Both lessons and lectures are illustrated, as far as possible, by specimens, especial attention being given to microscopic structure. As soon as the season allows, in the spring, the class room exercises are replaced by laboratory work, and the rest of the time until Commencement is spent in practical laboratory work, including analysis and description of plants, and the study of structural botany. Number of students, nineteen.

III. A course in Zoology, five hours a fortnight, lectures and recitations. This course is designed to give the student a knowledge of the phenomena connected with life in general. Typical examples illustrating the various groups of the animal kingdom are described, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied as well as their adult anatomy. Number of students, thirty.

IV. A practical laboratory class in Biology. The study is elective for the Junior and Senior years, and is open to only a limited number of students. The students spend two and a half consecutive hours in the laboratory five times a fortnight, and get practical knowledge of the use of the microscope and dissecting instruments. Those electing the study for two years spend the first year in the study of Biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mould, chara, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, various principles of Biology, comparative anatomy, and embryology. The second year is devoted to experiments in physiology, the study of histology, and mammalian anatomy. Those taking the study for one year only have a course planned according to the need and desires of the individual. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms. The design of the study is to give the student a practical knowledge of living things, and the course is therefore open to much variation to fit individual cases. Number of students, thirteen.

Tabular Statement of the Courses of Study.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

	No. of Terms.	No. of Exercises per Fortnight.		No. of Terms.	No. of Exercises per Fortnight.
Latin,	3	10	Mathematics,	3	10
Greek,	3	10	English,	3	2

SOPHOMORE YEAR.

REQUIRED.

Latin,	3	5	Surveying,	3	2
Greek,	3	5	Rhetoric,	1½	5
Analytical Geometry,	1	10	Logic,	1½	5
Physics,	2	10			

ELECTIVE.

French,	3	5	German,	3	5

JUNIOR YEAR.

REQUIRED.

Constitution of U. S.,	1½	5	Chemistry,	2	6
Psychology,	1½	5	Physiology,	2	6
			Geology,	1	12

ELECTIVE.

Calculus,	3	5	English Literature,	3	5
Theoretical Physics,	3	5	Elocution,	3	4
Practical Physics,	3	5	History,	3	5
Practical Chemistry,	3	5	Logic,	3	5
Zoölogy,	3	5	Latin,	3	5
Practical Biology,	3	5	Classical Greek,	3	5
Physical Geography,	1	5	Biblical Greek,	3	5
Botany,	2	5	French,	3	5
Mineralogy,	3	5	German,	3	5

SENIOR YEAR.

REQUIRED.

	No. of Terms.	No. of Exercises per Fortnight.		No. of Terms.	No. of Exercises per Fortnight.
Eth. and Chris. Ev.,	1½	8	Astronomy,	3	4
Polit. Economy,	1½	8			

ELECTIVE.

Practical Astronomy,	3	5	History of Philosophy,	3	5
Practical Physics,	3	5	History,	3	5
Practical Chemistry,	3	5	English Literature,	3	5
Advanced Chemistry,	3	5	Latin,	3	5
Practical Biology,	3	5	Greek,	3	5
Advanced Geology,	3	5	German,	3	5

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

Mathematics,	3	10	Rhetoric,	1½	5
Latin,	3	10	Logic,	1½	5
French,	3	5	English Language,	3	2

SOPHOMORE YEAR.

REQUIRED.

Analytical Geometry,	1	10	Chemistry,	2	6
Physics,	2	10	Physiology,	2	6
German,	3	5	Geology,	1	12

ELECTIVE.

Latin,	3	5	French,	3	5

JUNIOR YEAR.

REQUIRED.

	No. of Terms.	No. of Exercises per Fortnight.		No. of Terms.	No. of Exercises per Fortnight.
Constitution of U. S.,	1½	5	Surveying,	3	2
Psychology,	1½	5			

ELECTIVE.

Calculus,	3	5	Mineralogy,	3	5
Theoretical Physics,	3	5	Logic,	3	5
Practical Physics,	3	5	English Literature,	3	5
Practical Chemistry,	3	5	Elocution,	3	4
Zoölogy,	3	5	History,	3	5
Practical Biology,	3	5	Latin,	3	5
Physical Geography,	1	5	German,	3	5
Botany,	2	5			

NOTE.—Of the five electives taken by each student in this year of the Latin-Scientific Course, not less than three must be selected from among the first eight on the list.

SENIOR YEAR.

Same as in Classical Course, with the omission of the elective in Greek.

SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

Analytical Geometry,	1	10	French,	3	5
Physics,	2	10	Rhetoric,	1½	5
Chemistry,	2	6	Logic,	1½	5
Physiology,	2	6			
Geology,	1	12			

SOPHOMORE YEAR.

REQUIRED.

	No. of Terms.	No. of Exercises per Fortnight.		No. of Terms.	No. of Exercises per Fortnight.
Surveying,	3	2	Physical Geography, }	1	5
Theoretical Physics,	3	5	Botany, }	2	5
Practical Chemistry,	3	5	French,	3	5
Zoölogy,	3	5	German,	3	5

NOTE.—Students in this course desiring to elect Calculus, are allowed to take that study in the Sophomore year, and to postpone some one of the Sophomore studies till the Junior year.

JUNIOR YEAR.

REQUIRED.

Constitution of U. S., }	1½	5	German,	3	5
Psychology, }	1½	5	English Language,	3	2

ELECTIVE.

Calculus,	3	5	Logic,	3	5
Practical Physics,	3	5	English Literature,	3	5
Practical Chemistry,	3	5	Elocution,	3	4
Chemical Philosophy,	3	5	History,	3	5
Mineralogy,	3	5	Italian,	3	5
Practical Biology,	3	5			

SENIOR YEAR.

Same studies as in Classical Course, with the omission of the electives in Greek and Latin.

NOTE.—A brace enclosing the names of two or more studies indicates that those studies jointly extend through the year, the time being divided between them. The statement of number of terms, in the case of those studies which do not extend through the year, is only approximate.

Selection of Studies.

Each student is required to attend sixteen recitations a week, or the equivalent thereof, unless excused by vote of the Faculty; and, in addition, the rhetorical exercises assigned to the respective classes.

In making a selection among the elective studies, the following rules are to be regarded :—

A student may take elective studies assigned to a class below his own, as well as those assigned to his own class; but not those assigned to a class above his own, except by special permission of the Faculty. The election must in all cases be made for the whole year; no changes from one department to another being permitted during the year. Studies must be selected whose hours of recitation do not conflict with each other, as indicated by the tabular statement on the next page. The student's selection must in all cases be subject to the approval of the Faculty.

In order to avoid misunderstanding, each student shall present to the Secretary of the Faculty, on the first day of the Fall Term, a list of the studies which he desires to take.

ORDER OF RECITATIONS.

	SENIORS.	JUNIORS.	SOPHOMORES.	FRESHMEN.
8.	Ethics. Evidences. Polit. Econ. } S. Advanced Chemistry.† Latin (1st term).†	Chemistry. Physiology. Geology. } S. Mineralogy.* Classical Greek.*	Surveying. S.	English Language.
9.	German.* Geology.† Latin (2d term).†	Psychology. Constitution. } † Mineralogy.* English Literature.*	Mathematics. Physics. }	I. Latin. II. Composition. Tu.*
10.	I. English Literature.* Practical Astronomy.† Greek.†	Calculus.* Zoölogy.† Physical Geography. Botany. } * History.† Elocution. W., Th. Latin (3d term).*	II. Logic.†	II. Latin. I. Composition. W.†
11.	II. English Literature.*	II. Geology. Theoretical Physics.† Botany.* German.† Biblical Greek.* Latin (1st and 2d terms).† I. Declamation. Th.†	Rhetoric. I. Logic. } † French.*	I. Mathematics.
12.	Astronomy. M., Tu. Ethics. Evidences. } W., Th., Polit. Econ. } F.	Chemistry. Physiology. I. Geology. }	Greek.† Latin.*	II. Mathematics. II. Declamation. Th.†
2.		II. Declamation. W.* III. Declamation. Th.†	II. Declamation. Tu.* III. Declamation. W.† IV. Declamation. Th.*	I. Declamation. Tu.†
3.	Latin (3d term).†	French.* IV. Declamation. Tu.†	I. Declamation. Tu.†	I. Greek. III. Declamation. W.* IV. Declamation. Th.†
4.	Elective Philosophy.† History.*	Logic.*	German.*	II. Greek.

In the preceding table, each study is assigned to that year to which it belongs in the Classical Course. Exercises named without any sign or initial are daily exercises. Exercises which occur on alternate days are denoted by the signs * and †. Of these half-studies, those which are marked with the same sign occur on the same days; those marked with different signs occur on alternate days. It will be observed that recitations in half-studies assigned to the same hour will interfere with each other only when they are marked with the same sign.

Letters following the names of studies indicate the days of the week on which certain exercises occur. Letters in connection with the sign * or † indicate that an exercise occurs on the day mentioned in those weeks only in which other exercises marked with the same sign occur on that day. Roman numerals preceding the names of certain studies indicate the sections into which the classes are divided.

The Chemical laboratory is open for students in Practical Chemistry, on the days denoted by a †, from 2 P. M. till 6 P. M.; the Natural History Laboratory and the Physical Laboratory are open for students in Practical Natural History and Practical Physics respectively, on the days denoted by the *, from 2 P. M. till 5 P. M. Each student electing either of these studies is required to spend at least two and a half hours consecutively in the Laboratory.

EXAMINATIONS.

Examinations, either oral or written, are held in all the studies of the course. The oral examinations are held near the close of the college year, and are conducted before Examining Committees appointed by the Executive Committee of the Trustees. The written examinations are held whenever the respective studies are finished; but the papers are reserved for inspection by the Examining Committees. No student who has been absent from fifteen per cent or more of the required exercises in any study, can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences are not due to culpable negligence. No student who has been absent from ten per cent or more of the required exercises in any study can be admitted to the regular examination in that study without first passing a preliminary examination.

Special examinations will be held during the third term for those who have been absent, by permission, from the regular examinations which have occurred in the previous part of the year.

A special examination will be held, commencing on the Tuesday before the beginning of the first term, for those who shall have failed to pass any of the examinations of the preceding year. Students who fail to pass at this examination will be required to attend recitations with the next class in the studies in which they are deficient, and to be examined with the class at the regular time. Those, however, whose failure to pass shall have been due to necessary absence from examinations, may be excused by the Faculty from the requirement of attendance upon recitations, provided their scholarship shall be deemed sufficiently good.

A student desiring to take more than the prescribed quota of elective studies may present himself at the special examination, at the beginning of the first term, to be examined in advance in any required study; and, on showing evidence of a high degree of proficiency, he may be excused from recitation in that study.

PUBLIC WORSHIP.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city. Each student is allowed to elect what church he will attend, and is required to report such election to the Registrar at the beginning of each college year.

LEAVE OF ABSENCE.

No student is allowed to be absent from college without permission from the President.

The time appropriated to vacations is believed to be ample for the purpose of relaxation from study; and, in view of the unfavorable effect of all absences, either at the commencement or at any other period of the term, upon the standing and proficiency of the student, the Faculty earnestly request that parents and guardians will in no way encourage, or even sanction, such absences, without very urgent reasons.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:

Tuition, - - - - - - - - -	$75 00
Room Rent, from $12.00 to $36.00; average, -	26 00
General Repairs and Incidental Expenses, -	21 00
Use of Library and reading Room, - -	6 00
Total, - - - - - - - - -	$128 00

Students in Practical Chemistry are charged for the use of apparatus, for chemicals, and incidentals. This charge averages about eleven dollars a term.

A fee of five dollars a term is charged to each student in Practical Physics.

A diploma fee of five dollars is charged to each student at graduation.

Persons holding *free*, *permanent*, or *transferable* scholarships are exempt from charges for tuition.

The college bills are payable at the commencement of each term; to any bill not paid on presentation after one week's notice, five per cent. will be added. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town; but the places in which they room or board must in all cases be subject to the approval of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Board may be obtained in private families at prices varying from $3.00 to $5.00 a week. A large majority of the students board in clubs, at prices ranging from $2.50 to $4.00 a week.

Students provide for themselves furniture, fuel, lights, and books.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

GYMNASIUM.

The Gymnasium provides all the students, under certain rules and conditions, with opportunities for physical exercise, and is furnished with apparatus suitable for this purpose.

LIBRARY AND READING ROOMS.

The Library in Rich Hall contains about thirty-four thousand volumes. The library hall is open every week day of term time, except Saturday, from 10 A. M. to 1 P. M., and from 2 to 4 P. M.; on Saturdays, from 9 A. M. to 1 P. M. No student may take from the Library more than two books at a time, without special permission; books are loaned for two weeks, with the privilege of renewal, in the case of most books, for two weeks longer.

Books reserved by request of officers of instruction as collateral reading for students in their classes are shelved in a separate reading-room, can be taken out only at the close of library hours, and must be returned upon the opening of the library.

The books are catalogued on cards, on the so-called dictionary plan. Direct access to the shelves is allowed to all, in order that they may secure the benefit derived from selecting and examining the books themselves. Assistance is freely given by the Library staff when called for; but it is expected that students will consult for themselves the catalogues, indexes, and other helps, and thus learn the use of literary tools.

Visitors are always welcome, and at liberty to consult the Library.

About $1,100 is spent for the increase of the Library annually.

A reading-room, provided with the principal newspapers, daily and

weekly, is on the first floor of North College. The second, or Library reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

MUSEUM.

The Museum of Natural History occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with especial reference to educational purposes, and are freely accessible to students.

The nucleus of the Departments of Zoölogy and Botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions, in liberal donations from the Smithsonian Institution, and in collections made by the curators on the coast of New England through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort Collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent

purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique.

The following is an approximate statement of the number of specimens in the various departments of the Museum:

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	125
Fishes,	2,100
Insects—pinned and alcoholic,	3,500
nests, borings, &c.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Coelentera,	1,500
Sponges and Protozoa,	100

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,000
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	9,500
Fossils—Paleozoic,	2,500
Mesozoic,	800
Cenozoic,	1,000

The Museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

A limited number of *Free Scholarships*, exempting the holder from the charge for Tuition, have been established by the Trustees, and are available at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these, are the following :—

The John Evans Scholarship.

This Scholarship has been founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is yearly to be given to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. Only such as are preparing themselves for the ministry and are already licentiates in the Methodist Episcopal Church, can be candidates for this Scholarship.

The Squire Scholarship.

This Scholarship has been founded by Watson C. Squire, B. A. The income of it, amounting to one hundred and fifty dollars, will be awarded to that member of the Senior Class who shall pass the best examination in Greek, provided he pursue a course of study in Middletown, under the direction of the Faculty, for at least one year after graduation.

PRIZES.

The following prizes will be awarded during the present year:

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior Class whose oration at Commencement

shall be deemed best in composition and delivery. Each oration must must contain not more than twelve hundred words, and must be left with the Professor of Rhetoric on or before Tuesday, June 15th.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior Class who shall excel in English Composition. The subject for the essay of 1886 is, "The Opinions and Influence of Thomas Carlyle." The subject for the essay of 1887 is, "Religion and the French Revolution." The essays must be left with the Professor of Rhetoric on or before the first Monday of the Third Term.

The Harrington Prize will be awarded to that member of the Senior Class who shall excel in History. The subjects for the examination of 1886 are:—The Studies of the Department for the Senior year.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior Class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior Class who shall write the best essay on Political Economy. The subject for this year is "Combination and Competition." The essays must be left with the Instructor in the Department on or before the first Monday in May.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded to that member of the Senior or Junior Class who shall excel in Natural Science. The examination for this prize this year will be in Physiology.

A Prize, the gift of G. Brown Goode, M. A., will be given for the best Original Investigation in the Department of Natural History.

The Howell Prize, the gift of Hon. James Howell, and the George E. Reed Prize, will be awarded as a first and second prize, respectively, to the two members of the Junior Class who shall present the best orations at the annual Junior Exhibition. In the decision of these prizes, both the composition and the delivery of the orations will be considered.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior Class who shall excel in English Literature.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior Class who shall excel in Logic.

The Miller Prize, the gift of Mrs L. P. Miller, will be awarded to that member of the Junior Class who shall excel in Debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be given to that member of the Junior Class who shall excel in Metaphysics.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore Classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded as a second prize for excellence in Elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore Class who shall excel in the Greek language.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore Class who shall excel in the Latin language.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore Class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman Class who shall excel in Latin.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman Class who shall excel in Declamation.

The J. D. Miller Prize, the gift of Rev. Jahu Dewitt Miller, will be awarded to that member of the Freshman Class whose work in English Composition shall be judged best.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman Class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in either of the college classes, who shall write the best English poem. The poem must be left with the Professor of Rhetoric before the Senior Examination.

The designation of the classes to which the prizes are offered respectively is made with reference to the arrangement of studies in

the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold either of these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:

The Rich Prize, to Saul Ober Curtice.
The Olin Prize, to Arthur Eugene Sutherland.
The Harrington Prize, to Levi Oscar Kuhns.
The Wise Prize, to Robert Henry Williams.
The Philosophy Prize, to Arthur Eugene Sutherland.
The Joseph D. Weeks Prize, to William Howard Mitchell.
The G. Brown Goode Prize, to Irving Samuel Haynes.
The Peirce Prize, to George Phelps Wardell.
The Camp Prize, to George Copeland Boswell.
The Weeks Prize, to Jeremiah Malachy Sheehan.
The Miller Prize, to Jeremiah Malachy Sheehan.
The David A. Walkley Prize, to William Barker Gwinnell.
The Parker Prize, to Walter Russell Breed.
The Scranton Prize, to George Copeland Boswell.
The Spinney Prize, to Frank Henry Richmond.
The Phi Beta Kappa Prize, to Jacob Augustus Cole.
The Rice Prize, to Edward Evans Pixley.
The Sherman Prize, to Arthur Wilson James.
The Hibbard Prize, to Hubert Wetmore Wells.
The Taylor Prize, to Louis Jones Magee.

The Ayres Prize for the present year has been awarded to Fred Morgan Davenport.

HONORS.

The speakers at the Junior Exhibition and at Commencement are selected according to the standing in Composition and Declamation subsequent to the Freshman Year.

There are two grades of honor conferred at graduation, based upon the general standing of the whole course. Eighty-eight per cent. of the maximum standing entitles a student to the first grade of honor, and eighty-three per cent. to the second grade.*

*The scale of marking in practical use is such that the best students in any department receive about ninety-two per cent. of the absolute maximum.

Special honors are also given at graduation in each of the following departments:—

Latin; Greek; Modern Languages; Rhetoric and English Literature; Logic, Psychology and Ethics; Political and Social Science, including History; Mathematics; Physics; Chemistry; Biology; Geology.

The candidate for special honors must apply to the officer or officers of the department in which he proposes to take honors, not later than the first Monday in May of the Junior Year. He must pass, at the regular or special examinations, in all the studies (both required and elective) in the department in which he proposes to take honors, and must maintain in that department an average standing not lower than eighty per cent. of the maximum. He must, in addition, pursue such a course of collateral reading or investigation as shall be prescribed by the officer or officers in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer or officers of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

The honors, both general and special, are stated in the diploma; and the names of students who take honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:

Honors in General Scholarship.

First Grade.—Ernest Perley Clarke, Levi Oscar Kuhns, William Howard Mitchell, Wilbur Everett Rowell, Frank Bourne Upham, Robert Henry Williams, Frederick Shenstone Woods, Bella Beeton Pullman.

Second Grade.—George Davis Beattys, William Scott Foster, Jacob Christian Lange, Arthur Eugene Sutherland, Catherine Amelia Gardner, Ida Rachel Gridley.

Honors in Special Departments.

Greek.—Selections from the Dramatists. Essay on Woman in the Greek Drama.

To Catherine Amelia Gardner.

Latin.—Selections from Propertius and Suetonius, with accompanying Essays.

To Charles Sumner Van Deusen, Robert Henry Williams.

Mathematics.—Quaternions.

To Frederick Shenstone Woods.

Physics.—Elements of Mathematical Theory of Electricity. Experiments for determination of horizontal intensity of terrestrial magnetism.

To Frederick Shenstone Woods.

Modern Languages.—Goethe's Faust, Part I.; Lessing's Nathan der Weise; Dante's Inferno, 16 Cantos.

To Levi Oscar Kuhns.

English Literature.—The Dramas of Shakspere, with some study of the contemporary dramatists. Essay upon The Attitude of Shakspere toward Religion.

To Levi Oscar Kuhns, Frank Sumner Townsend.

Political and Social Science.—I. English History—Reigns of Charles II., James II., William III.

To Stephen Spurgeon Abbott, Ernest Perley Clarke, Wilbur Everett Rowell, Frank Sumner Townsend.

II. American History.—1. Madison's Notes of the Federal Constitution of 1787.

2. Wilson's Congressional Government.

To George Davis Beattys, Jacob Christian Lange, Arthur Eugene Sutherland, Frank Bourne Upham.

Chemistry.—Physiological. Experiments on the Sources of the Nitrogen of Plants. Thesis on the Composition of the Wheat Grain.

To James Strong Judd.

Experiments on the Determination of Nitrogen. Thesis on the Nutrients in Dietaries.

To Irving Samuel Haynes.

Experiments on the Coagulation of Albuminoids. Thesis on the Chemical Composition of the Human Body.

To Edward Augustus Welch.

Degrees.

The following degrees are conferred by the University, in course:

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

MASTER OF ARTS.—This degree may be conferred on any Bachelor of Arts, of three years' standing or more, who has been engaged since graduation in some literary occupation. Persons who intend to take this degree must apply to the President as early as the Monday preceding Commencement, and advance the usual fee.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

Obituary Record.

Obituary notices of deceased graduates of the University are published annually. All persons who can supply information appropriate to the future editions of this Record, are urgently requested to communicate the same to Professor C. T. Winchester.

Alumni Record.

Through the liberality of Orange Judd, Esq., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students of the College not graduates, with their present residences and such other information with reference to them as the most thorough search can obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Librarian, Mr. W. K. Stetson. The price of the Record, when sent by mail, is two dollars and twenty-five cents.

Information in regard to changes of residence or address of Alumni, or to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with the Librarian, Mr. W. K. Stetson.

Calendar.

1885.

Sept. 10, Thursday—First Term commenced.
Dec. 23, Wednesday—First Term will close.

VACATION OF TWO WEEKS.

1886.

Jan. 7, Thursday—Second Term will commence.
March 30, Tuesday—Junior Exhibition.
March 31, Wednesday—Second Term will close

VACATION OF ONE WEEK.

April 8, Thursday—Third Term will commence.
June 2, Wednesday—Senior Examination will commence.
June 2, Wednesday—Prize Debate and Declamation.
June 15, Tuesday—Annual Examination will commence.
June 18, Friday—Prize Declamation.
June 20, Sunday Morning—Baccalaureate Sermon.
June 20, Sunday Evening—University Sermon.
June 21, Monday—Class Day.
June 22, Tuesday—Anniversaries of the Literary Societies.
June 22, Tuesday—Meeting of the Board of Trustees, at 9 o'clock, A. M.
June 23, Wednesday—Business Meeting and Anniversary of the Alumni Association.
June 23, Wednesday—Reunion of Classes of 1861, '71, '76, '79, and '83.
June 24, the last Thursday of June—COMMENCEMENT.
June 25, Friday—Examination of candidates for admission will commence.

VACATION OF TWELVE WEEKS.

Sept. 14, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 15, Wednesday—Examination of candidates for admission will commence.
Sept. 16, Thursday—First Term will commence.
Dec. 22, Wednesday—First Term will close.

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1887

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ANNUAL CATALOGUE

—OF—

Wesleyan University,

1886-87.

MIDDLETOWN, CONN.:
PELTON & KING, PRINTERS AND BOOKBINDERS.
1886.

CATALOGUE

—OF—

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1886-87.

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MORRIS BARKER CRAWFORD, M. A.,
FOSS PROFESSOR OF PHYSICS.
(21 O. H.) & Church St.

ABRAM WINEGARDNER HARRIS, M. A.,
INSTRUCTOR IN HISTORY AND POLITICAL ECONOMY.
(8 S. C.) 1 Pearl St.

WILLIS KIMBALL STETSON, M. A.,
LIBRARIAN.
(Library) 75 High St.

HERBERT WILLIAM CONN, PH. D.,
ASSOCIATE PROFESSOR OF BIOLOGY.
(13 J. H.) 125 College St.

ELIAS HERSHEY SNEATH, B. D.,
INSTRUCTOR IN MENTAL PHILOSOPHY.
143 High Street.

HENRY SEELY WHITE, B. A.,
TUTOR IN MATHEMATICS AND REGISTRAR.
22 N. C.

FRANKLIN HENRY TAYLOR, B. A.,
TUTOR IN GREEK.
34 College St.

ROBERT HENRY WILLIAMS, B. A.,
TUTOR IN LATIN.
40 N. C.

JOHN LITTLEFIELD TILTON, B. A.,
ASSISTANT IN NATURAL SCIENCE.
18 N. C.

THOMAS HAZEN CLARK, B. S.,
ASSISTANT IN CHEMISTRY.
41 N. C.

STUDENTS.

GRADUATE STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Thomas Hazen Clark, B. S., CHEMISTRY.	*Worcester, Mass.* *Worcester Free Institute.*	41 N. C.
John Littlefield Tilton, B. A., BIOLOGY AND MINERALOGY.	*Nashua, N. H.*	18 N. C.

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Walter Russell Breed,	*Lynn, Mass.*	9 S. C.
§ Harry Breneman Bruner,	*Columbia, Pa.*	*108 William St.*
Buel Owen Campbell,	*St. Albans, Vt.*	*93 High St.*
Dwight Friend Carroll,	*Yalesville.*	X. Ψ. *House.*
Herbert Edgar Cobb,	*Searsmont, Me.*	A. Δ. Φ. *House.*
Jacob Augustus Cole,	*Tottenville, N. Y.*	Δ. K. E. *House.*
Henry Buckley Coons,	*Catskill, N. Y.*	*106 William St.*
§ Edward Everett Cornwall,	*Portland.*	X. Ψ. *House.*
Russell Hubert Croxford,	*E. Dixmont, Me.*	*111 Court St.*
§ Edwin Fish,	*Trinidad, Col.*	X. Ψ. *House.*
George Francis Flynn,	*E. Brookfield, Mass.*	X. Ψ. *House.*
Edmund Richard Foley,	*Southington.*	*11 Wyllys Av.*
Robert Lewis Gilbert,	*Derby.*	30 N. C.
§ Harold Charles Hutchison,	*Harrisburg, Pa.*	16 O. H.

NAMES.	RESIDENCES.	ROOMS.
George Arthur Ingalls,	*Sandy Hill, N. Y.*	42 N. C.
Elmer Frederic Newell,	*Mapleville, R. I.*	Δ. K. E. *House.*
Edward Summerfield Ninde,	*Topeka, Kansas.*	*98 College St.*
Harvey Hallet Paine,	*Centreville, Mass.*	C O. H.
Edward Evans Pixley,	*Leyden, Mass.*	14 N. C.
Ralph Hayward Pomeroy,	*Brooklyn, N. Y.*	18 O. H.
† William Trafton Randall,	*Middletown.*	*112 High St.*
Frank Henry Richmond,	*Ellenburg, N. Y.*	18 O. H.
Herbert Dwight Rockwell,	*N. Adams, Mass.*	B O. H.
Joseph Chapin Rockwell,	*N. Adams, Mass.*	B O. H.
Benjamin Franklin Sharpe,	*Camden, N. J.*	28 N. C.
§ Odell Seymour Smith,	*New York, N. Y.*	A. Δ. Φ. *House.*
§ David Holden Stafford,	*Brandon, Vt.*	Δ. K. E. *House.*
† Millard Fillmore Steelman,	*Atlantic City, N. J.*	10 O. H.
James Madison Stevens,	*Chester, Pa.*	11 O. H.
Carlos Hotchkiss Storrs,	*Seymour.*	44 N. C.
§ Samuel Newton Taylor,	*Farmingdale, N. Y.*	A. Δ. Φ. *House.*
Albert Welcome Thayer,	*E. Blackstone, Mass.*	Δ. K. E. *House.*
Calvin Spencer Videon,	*Windsor Locks.*	10 O. H.
Herbert Welch,	*New York, N. Y.*	*11 Wyllys Av.*
George William Wood,	*Haddam.*	*112 High St.*
Robert Louis Zink,	*West Stratford.*	*142 High St.*
§ Jessie Innes Inglis,	*Middletown.*	*120½ Main St.*
Katie Griffing Pike,	*Middletown.*	*10 College Place.*
Jennie Van Vleck,	*Middletown.*	*76 Church St.*

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
Frederic Gibbs Axtell,	*Milford.*	*112 High St.*
Harry Harvey Beattys,	*Brooklyn, N. Y.*	9 S. C.
† John Law Bridge,	*Hazardville.*	34 N. C.
William Evans Bruner,	*Columbia, Pa.*	*108 William St.*
William Lewis Bulkley,	*Orangeburg, S. C.*	12 N. C.

NAMES.	RESIDENCES.	ROOMS.
Edward Washington Burke,	*Federalsburg, Md.*	*8 Wyllys Av.*
Henry William Camier,	*Middletown.*	6 N. C.
William Morton Cassidy,	*E. Boston, Mass.*	50 N. C.
Charles Phillips Cooper,	*Canandaigua, N. Y.*	26 N. C.
Ernest Russell Deane,	*Edgartown, Mass.*	Δ. K. E. *House.*
§ Harvey William Fellows,	*Troy, N. Y.*	Δ. K. E. *House.*
William Elliott Foster,	*Middletown.*	*90 Court St.*
William Clark Gordon,	*Oxford, Mass.*	50 N. C.
§ Henry Pinnie Griffin,	*Granby.*	Δ. K. E. *House.*
Charles Minot Griffith,	*Perry. N. Y.*	*114 High St.*
Roland Wilkins Guss,	*Philipsburg, Pa.*	38 N. C.
Morton Lee Hall,	*Bakersfield, Vt.*	*120 High St.*
George Dempster Hamlen,	*Pascoag, R. I.*	Δ. K. E. *House.*
Frederic Hobart Lawrence Hammond,	*Ansonia.*	A. Δ. Φ. *House.*
Howard Hornbeck Hawxhurst,	*Shandaken, N. Y.*	A. Δ. Φ. *House.*
Fred Alexander Hillery,	*Montpelier, Vt.*	Ψ. Υ. *House.*
Thomas Arthur Humason,	*New Britain.*	A. Δ. Φ. *House.*
Robert Seney Ingraham,	*Brooklyn, N. Y.*	*75 High St.*
Arthur Wilson James,	*East Rush, Pa.*	16 N. C.
William Avery Knox,	*Brewster, N. Y.*	10 N. C.
§ Frederick William Lange,	*Scranton, Pa.*	38 N. C.
Joseph Ward Lewis,	*Gt. Barrington, Mass.*	*11 Wyllys Av.*
Harry Keiser Munroe,	*Hackettstown, N. J.*	A O. H.
Theophilus England Niles,	*Ashland, N. Y.*	X. Ψ. *House.*
§ George Levi Rice,	*Tinmouth, Vt.*	Δ. K. E. *House.*
§ Herbert Lowell Rich,	*Weymouth, Mass.*	A O. H.
Theodore Richards,	*Brooklyn, N. Y.*	34 N. C.
§ Frank Elwood Sanford,	*Edinburg, O.*	9 O. H.
William Barnard Smith,	*Middlebury.*	A. Δ. Φ. *House.*
† Aaron Louis Treadwell,	*Redding.*	X. Ψ. *House.*
Thomas Dudley Wells,	*Belmont, N. H.*	Ψ. Υ. *House.*
§ Marcus White,	*Farnumsville, Mass.*	*8 Wyllys Av.*
Wesley Ellsworth Woodruff,	*Waverly, N. Y.*	30 N. C.
§ Alice May Hotchkiss,	*Middletown.*	*31 Church St.*
Mary Mendall,	*Brooklyn, N. Y.*	*135 High St.*
Kate Bertha Mitchell,	*Remsen, N. Y.*	*135 High St.*

Sophomore Class.

Names.	Residences.	Rooms.
Dudley Chase Abbott,	*Bloomfield.*	14 N. C.
Edward Everett Abercrombie,	*Worcester, Mass.*	12 N. C.
Arthur Newell Burke,	*Norwich.*	*19 Wyllys Av.*
§ Henry Havens Chatfield,	*Bridgehampton, N. Y.*	Δ. K. E. *House.*
Seward Vincent Coffin,	*Middletown.*	*112 Main St.*
John Havemeyer Daniels,	*Dover, N. J.*	*7 Wyllys Av.*
Fred Morgan Davenport,	*New Milford, Pa.*	*82 Church St.*
Bernard Marcus Davis,	*Seymour.*	48 N. C.
John Wesley Dutton,	*So. Walden, Vt.*	*106 High St.*
§ William Bradford Eaton,	*Springfield, Mass.*	48 N. C.
Julius Wilbur Eggleston,	*Birmingham.*	29 N. C.
§ Fred Beauregard Faber,	*Seymour.*	44 N. C.
Henry Floy,	*Elizabeth, N. J.*	11 S. C.
Willie Irving Ford,	*Natick, R. I.*	*8 Wyllys Av.*
George Washington Gardiner, Jr.,	*Lafayette, R. I.*	44 N. C.
Mark Willson Gill,	*Portland, Or.*	27 N. C.
§ George W. Meek Glenn,	*Fillmore, Pa.*	32 N. C.
Herbert Augustus Hill,	*Bridgeport.*	*7 Wyllys Av.*
George Mead Hughes,	*Orange, N. J.*	*102 William St.*
† James Alonzo Hulse,	*Amityville, N. Y.*	X. Ψ. *House.*
§ Orville Edson Johnson,	*Stoneham, Mass.*	48 N. C.
§ Percy Lincoln Johnson,	*Bridgeport.*	A. Δ. Φ. *House.*
Ayskeh Kabayama,	*Tokio, Japan.*	*106 High St.*
Fred Barnum Keller,	*Pine Plains, N. Y.*	X. Ψ. *House.*
§ George Frederic Kettell,	*Brooklyn, N. Y.*	*19 Wyllys Av.*
Samuel Gail Landon,	*Rummerfield, Pa.*	*82 Church St.*
Seymour Landon,	*Bordentown, N. J.*	*112 High St.*
John Elijah Loveland,	*Middletown.*	*39 Broad St.*
§ George Elbert Manchester,	*West Winsted.*	*106 High St.*
Henry Frank Mandeville,	*Brooklyn, N. Y.*	*1 Wyllys Av.*
Edward Ernest Matthews,	*Newark, N. J.*	*19 Wyllys Av.*
Arthur Herbert Meritt,	*West Eaton, N. Y.*	16 O. H.
† Rowland Franklin Miles,	*Northport, N. Y.*	*92 William St.*
Harry Summerfield Noe,	*Middlebury, Vt.*	Δ. K. E. *House.*
Lyon Levi Norton,	*Stark, Me.*	*11 Wyllys Av.*
Arthur W. Partch,	*Hiawatha, Kan.*	32 N. C.
William Claflin Prentice,	*Middletown.*	*1 Wyllys Av.*

NAMES.	RESIDENCES.	ROOMS.
William Emory Smyser,	*Chambersburg, Pa.*	Δ. K. E. *House.*
§ Charles Wardell Stiles,	*Hartford.*	36 N. C.
Jared Sweet Tillinghast,	*Middletown.*	77 *High St.*
§ Charles Perley Tinker,	*New London.*	A. Δ. Φ. *House.*
Everett Hustis Travis,	*Poughkeepsie, N. Y.*	37 N. C.
Fred Van Dorn,	*Mount Morris, N. Y.*	8 N. C.
§ Willard Ives Warriner,	*Port Washington, N. Y.*	A. Δ. Φ. *House.*
† Jordan Coveydogue Wells,	*Brooklyn, N. Y.*	13 N. C.
† Alfred Northam Wright,	*Essex.*	52 N. C.
§ Elizabeth Arbuckle Craig,	*Middletown.*	*18 Hubbard St.*
§ Mary Graham,	*Brooklyn, N. Y.*	*135 High St.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Howard Townsend Alexander,	*Elizabeth, N. J.*	11 S. C.
William Wellington Alexander,	*Harford, Pa.*	C O. H.
Francis Asbury Bagnall,	*Middletown.*	*106 High St.*
§ Charles Elmore Barto,	*Northport, N. Y.*	39 N. C.
Frank Miller Baum,	*Hanover Court House, Va.*	54 N. C.
Edward Arthur Bawden,	*Minersville, Pa.*	54 N. C.
Robert James Beach,	*Bridgeport.*	60 N. C.
Jesse Leander Beers,	*Easton.*	39 N. C.
Richard Ellsworth Bell,	*New York City, N. Y.*	14 O. H.
John Andrew Bergström,	*Middletown.*	Δ. K. E. *House.*
Wilson Fisk Brainard,	*Cobalt.*	23 N. C.
† Herbert Linwood Campbell,	*Westfield, Mass.*	*93 High St.*
§ Charles M. Child,	*Higganum.*	X. Ψ. *House.*
Fred Woodburn Cobb,	*Campello, Mass.*	17 N. C.
Gideon Wales Coons,	*Catskill, N. Y.*	*106 William St.*
§ Lewis Nelson Crane,	*Berlin.*	33 N. C.

NAMES.	RESIDENCES.	ROOMS.
Edwin Parker Currier,	*Barton, Vt.*	11 N. C.
§ Frank Burnett Dains,	*Casenovia, N. Y.*	62 N. C.
Charles Fellows Eggleston,	*Birmingham.*	29 N. C.
Charles Jessup Foster,	*Middletown.*	*90 Court St.*
Edgar Smith Furnel,	*Wilton, Me.*	31 N. C.
Frederick Augustus Gascoigne,	*Brooklyn, N. Y.*	*106 High St.*
Frederick Samuel Goodrich,	*Waterbury.*	*39 Broad St.*
Winfield Scott Goss,	*St. Johnsbury Center, Vt.*	11 N. C.
Frederick Watson Hannan,	*Rock Hill, N. Y.*	19 N. C.
John Morgan Harris,	*Bennington, Vt.*	64 N. C.
† Samuel Boger Harvey,	*Chaplin.*	33 N. C.
William Alexander Heath,	*Brockport, N. Y.*	*150 High St.*
John Robert Henshaw,	*Suffield.*	5 O. H.
John Blake Hillyer,	*Brooklyn, N. Y.*	35 N. C.
§ Henry Arthur Hoyt,	*Newburgh, N. Y.*	*102 William St.*
John Alfred Hughes,	*Thornhill Lees, England.*	17 N. C.
John Stryker Lull,	*White Plains, N. Y.*	64 N. C.
§ Charles Lee Mackey,	*Poughkeepsie, N. Y.*	*92 William St.*
William Andrew Montgomery,	*Worcester, Mass.*	49 N. C.
Walter Everard Morse,	*Livermore Falls, Me.*	31 N. C.
Leonard Colburn Murdock,	*Toddsville, N. Y.*	55 N. C.
§ Eugene Allen Noble,	*Brooklyn, N. Y.*	14 O. H.
§ George Howard Opdyke,	*Jersey City, N. J.*	19 N. C.
George Luther Peck,	*Apalachin, N. Y.*	55 N. C.
† Carl Noyes Quimby,	*Whitefield, N. H.*	58 N. C.
§ Charles Marcy Robinson,	*Middletown.*	*79 College St.*
Willis Fenton Roe,	*Marcellus, N. Y.*	49 N. C.
§ Frederick Howard Scott,	*Westfield, Mass.*	*93 High St.*
Preston More Selleck,	*Hudson, N. Y.*	X. Ψ. *House.*
§ William Andrew Settle,	*Saguache, Colo.*	45 N. C.
Charles Scott Smith,	*Buffalo, N. Y.*	35 N. C.
Edwin Sloan Tasker,	*Manchester, N. H.*	62 N. C.
† Fred Thomas Tateum,	*Worcester, Mass.*	42 N. C.
Wilson Wallace Thompson,	*New Britain.*	*5 Bailey Av.*
§ John Jackson Tinker,	*Suffield.*	5 O. H.
William Ritter Weaver,	*Washington, N. J.*	60 N. C.
Lewis Gardner Westgate,	*Middletown.*	*84 High St.*
Mellen Augustus Whitney,	*Solon, Me.*	7 S. C.

NAMES.	RESIDENCES.	ROOMS.
§ Anna Harris Andrews,	*Hartford.*	*15 Grand St.*
§ Martha Josephine Beach,	*Middletown.*	*104 William St.*
Mary Romer Beach,	*Middletown.*	*1 High St.*
§ Clara Maria Coggshall,	*West Brookfield, Mass.*	*135 High St.*
§ Lillie Belle Conn,	*Fitchburg, Mass.*	*135 High St.*
Hester Laurence Raymond,	*North Lyme.*	*135 High St.*

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Dubois German Atkins,	*Clintondale, N. Y.*	37 N. C.
Charles Horace Talmage,	*Higganum.*	X. Y. *House.*
William Howard Treat,	*New York, N. Y.*	*114 High St.*
Harriette Emily Gaylord,	*Copper Hill.*	*135 High St.*

Summary.

GRADUATE STUDENTS,	2
SENIORS,	39
JUNIORS,	41
SOPHOMORES,	48
FRESHMEN,	60
SPECIAL STUDENTS,	4
TOTAL,	194

Abbreviations.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

General Statement.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, extending through four years and named respectively the Classical, Latin-Scientific, and Scientific Courses.

In the Classical Course the study of Latin and Greek forms a large part of the required work of the first two years. In the Latin-Scientific Course, Greek, and in the Scientific Course, both Greek and Latin, are omitted, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above Courses, all of the studies of the first year are required, except that the Classical and Latin-Scientific students have the option between French and German. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies.

In the choice of these electives, the student is encouraged to exercise prudence and deliberation, and especially to regulate his choice so that his electives will together form a harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

The allotment of the subjects of study in the several Courses is set forth in the following table, in which the numbers in the columns headed "Required" show approximately what percentage of the whole work of the respective Courses is constituted by required studies in the several departments named; while the numbers in the columns headed "Elective" show the amount of elective work offered in the respective departments computed on the same scale.

DISTRIBUTION OF REQUIRED AND ELECTIVE STUDIES IN THE CLASSICAL, LATIN-SCIENTIFIC, AND SCIENTIFIC COURSES.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Ancient Languages,	22	20	7	12	—	—
Modern Languages,	4*	16	4	13	13	4
Rhetoric and English Literature,	4	11	4	12	4	12
Logic, Psychology, and Ethics,	8	8	8	8	8	8
History and Political and Social Science,	5	8	5	8	5	8
Mathematics,	9	8	9	8	2	9
Physics and Astronomy,	8	20	8	21	8	21
Chemistry,	3	12	4	12	4	17
Biology,	3	15	6	12	6	13
Geology, Mineralogy, and Physical Geography,	4	10	5	8	5	8
Percentage of work required of each student in four years,	70	—	60	—	55	—
Percentage of elective work,	—	30	—	40	—	45

* Option is allowed between French and German. If these should therefore be counted as elective, the percentage of studies required would become 66.

The distribution of the required and elective work in each of the four years is shown in the following table:

PERCENTAGE OF REQUIRED AND ELECTIVE WORK FOR EACH YEAR IN EACH COURSE.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Freshman Year,	84	16*	83	17	100	0
Sophomore "	84	16	53	47	69	31
Junior "	53	47	53	47	17	83
Senior "	28	72	28	72	28	72

* Option between French and German, one of which is required.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood, that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

POST-GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue post-graduate courses of study in any of the departments.

Terms of Admission.

CLASSICAL COURSE.—Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN. — Candidates are examined in either of the following courses, according to their option:—

I. Cæsar, Gallic War, books I., II.; Vergil, Æneid, books I. to VI. inclusive, Eclogues, Georgics (or two thousand lines of Ovid); Cicero, eight orations; Latin Grammar, including Prosody; translation into Latin of simple English sentences and easy narratives based on the prose authors read.

Candidates are also allowed at the option of the examiner to substitute translation at sight from the authors specified in Course II. for some of the passages set from the authors required in Course I., and it is especially urged that systematic practice in accurate sight-reading be made a part of the preparatory training from the very first.

II. Translation at sight of passages from Cæsar, Cicero's Orations, Vergil, Ovid's Metamorphoses, Sallust, and Cornelius Nepos; Latin Grammar and Composition as in Course I.

The Roman system of pronunciation is exclusively used in all the Latin work of the College course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the

latter are pronounced in less time than the former); *ae* as *aye*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit;* *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th*, as *c*, *p*, and *t* with the aspiration following, as in *haphazard* and *boathook;* other consonants as in English.

GREEK. — Candidates are examined in either of the following courses according to their option:—

I. Four books of Xenophon's Anabasis; three books of Homer's Iliad; Hadley-Allen's or Goodwin's Greek Grammar; simple sentences in Greek Prose Composition.

Candidates in Course I. may substitute the translation of a prose passage at sight as the equivalent of one of the passages set for the examination in the Anabasis. It is very desirable that all candidates shall have had training in translation at sight.

II. Translation at sight of average passages from Xenophon and from the Iliad (the candidate being supplied with a vocabulary of the less usual words). Greek Prose composition and Grammar as in Course I.

HISTORY AND GEOGRAPHY.—History of Rome, to the death of Marcus Aurelius; History of Greece, to the capture of Corinth; Ancient Geography. The amount of historical knowledge required for this examination may be obtained from the following books:— Cox's or Smith's Smaller History of Greece; Leighton's History of Rome. Tozer's Primer of Ancient Geography is recommended as the basis for instruction in Ancient Geography, and familiarity with map-drawing is especially desirable.

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures. 2. Algebra, through Quadratic Equations,— including Arithmetical and Geometrical Progressions, and the use of the Binomial Formula for positive integral exponents,—so much, for example, as is contained in the first seven books of Newcomb's Algebra for Colleges, or in the first eighteen chapters of Loomis's Treatise on Algebra. 3. Plane Geometry,—so much as is contained in the first five books of Chauvenet's or Wentworth's Geometry, or the first six books of Newcomb's Geometry.

ENGLISH.—1. Each candidate will be required to write a short English essay upon a subject announced at the time of the examination. This essay will be expected to show a general familiarity with the works mentioned below, and will be examined with especial attention to accuracy of grammar, spelling, and punctuation. One

hour will be given to this exercise. In 1887, the subject of this essay will be taken from one of the following works:—Shakspere's Julius Cæsar and Merchant of Venice; Johnson's Lives of Milton and Dryden; Macaulay's Essays on Milton and Dryden; Milton's Paradise Lost, Books I. and II.; Dryden's Alexander's Feast; Scott's Quentin Durward; Irving's Bracebridge Hall.

In 1888, it will be taken from the following:—Shakspere's Julius Cæsar and Twelfth Night; Johnson's Lives of Addison and Pope; Thackeray's English Humorists; Dobson's Eighteenth Century Essays; Pope's Rape of the Lock and Essay on Criticism; Miss Austen's Pride and Prejudice; Irving's Bracebridge Hall; Macaulay's Lays of Ancient Rome.

In 1889, it will be taken from the following:—Shakspere's Julius Cæsar and As You Like It; Johnson's Lives of Swift and Gray; Thackeray's English Humorists; Swift's Gulliver's Travels; Gray's Elegy; Miss Austen's Pride and Prejudice; Scott's Marmion and Rob Roy.

In 1890, it will be taken from the following:—Shakspere's Julius Cæsar and Midsummer Night's Dream; Macaulay's Life of Johnson and Essay on Boswell's Life of Johnson; Carlyle's Essays on Boswell's Life of Johnson; Johnson's Vanity of Human Wishes; Goldsmith's Vicar of Wakefield and Deserted Village; Dobson's Eighteenth Century Essays; Scott's Quentin Durward; Macaulay's Lays of Ancient Rome.

2. Each candidate will be required to criticise specimens of English given him at the time of the examination. Half an hour will be given to this exercise.

LATIN-SCIENTIFIC COURSE.—Candidates for the Latin-Scientific Course will be examined in all of the above subjects, except Greek. *They will also be examined in French or German as each candidate may elect. Such a knowledge of the language will be required as will enable the candidate to read easy passages at sight.*

SCIENTIFIC COURSE.—Candidates for the Scientific Course will be examined in the following books and subjects:—

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures. 2. Algebra, through the Theory of Equations,—so much as is contained in Newcomb's Algebra for Colleges, or Loomis's Treatise on Algebra. 3. Plane and Solid Geometry,—so much as is contained in Chauvenet's Geometry to Appendix I., or in Newcomb's Geometry, omitting the chapters on the Conic Sections. 4. Plane and Spherical Trigonometry, with the use of Logarithmic

and Trigonometric Tables,—so much as is contained in Wheeler's Elements of Trigonometry.

ENGLISH.—Same requirements as for Classical Course.

FRENCH OR GERMAN.—Same requirements as for Latin-Scientific Course.

SPECIAL COURSES.—Special Students, not candidates for a degree, may be admitted upon passing such examination as the Faculty shall in each case prescribe.

No one can be admitted to the Freshman Class under the age of fifteen years, or to an advanced standing without a corresponding increase of age.

All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

A student who has accomplished half or more of the preparatory course, may be examined on that part, and receive credit therefor. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

The regular examination for admission is held on the Friday and Saturday of Commencement Week. All candidates must be present at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the Fall Term.

Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided that they make application to the President before June 1st. The time of these examinations will be Thursday and Friday of Commencement Week. But, if no applications are received before June 1st, these examinations will not be held.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

DEPARTMENTS OF INSTRUCTION.

LATIN.

MR. TRUE; MR. WILLIAMS.

I. Required of Freshmen in Classical and Latin-Scientific Courses.

Livy, books 21 and 22, with parallel readings from Polybius in translation. *Three hours a week during first half-year.*

Horace,—Epodes, Satires, Odes, and Epistles. *Three hours a week during second half-year.*

Exercises in Sight Translation and Prose Composition throughout the year.

Ihne's Early Rome, with courses of collateral readings on special topics. *Weekly throughout the year.*

II. Required of Classical Sophomores; elective for Latin-Scientific Sophomores.

Plautus,—Captivi; Terence,—Andria. Readings from other plays of these authors. *Four hours a fortnight during first half-year.*

Cicero,—Selected Letters, with frequent sight translations. *Four hours a fortnight during second half-year.*

Illustrated lectures on the Drama and Private Life of the Romans. *Fortnightly during the year.*

III. Elective for all who have taken I. and II.

Tacitus,—Histories. *Five hours a fortnight during first half-year.*

Catullus, Propertius, and Tibullus,—Selections. *Four hours a fortnight during second half-year.*

Elementary lectures on Historical Grammar, with readings from the Institutes of Quintilian. *Fortnightly during second half-year.*

IV. Elective for all who have taken I., II., and III.

Juvenal,—Selected Satires. *Five hours a fortnight during first half-year.*

Lucretius. *Five hours a fortnight during second half-year.*

Practice in the interpretation of selected portions of the authors read.

V. A course of lectures on the History of Classical Studies, Methods of Study and Teaching, Choice of Books, &c., suited to the needs of those intending to teach the classics or to pursue extended courses of study in philology. This course is open to members of the three upper classes, as an extra.

GREEK.

PROFESSOR VAN BENSCHOTEN; MR. TAYLOR.

I. Required of Freshmen in the Classical Course.

Herodotus. Special attention to Morphology and Etymology. *Four hours a week during fall term.*

Thucydides; Syntax, with Prose Composition; Greek History. *Four hours a week during winter term.*

Homer's Iliad; Prosody; Lectures on Greek Life, with illustrations from original sources. *Four hours a week during spring term.*

Throughout the year considerable time is given to sight-reading, and students are encouraged to read large amounts with as little use of lexicon and grammar as possible. In recitation, accuracy of translation and good English are required.

II. Required of Sophomores in the Classical Course.

Aeschines and Demosthenes on the Crown. Lectures on the Athenian Constitution and Politics, and the Greek Orators. The reading required includes Butcher's Demosthenes, Jebb's Greek Orators, and Jebb's Primer of Greek Literature. *Five hours a fortnight during fall term.*

Greek Drama: Aeschylus,—Prometheus Bound; Sophocles,—Antigone. Lectures, with illustrations, on the Greek Theatre and its appointments. The reading includes Jebb's Primer of Greek Literature, Jevons' History of Greek Literature, and Mahaffy's History of Greek Literature. *Five hours a fortnight during winter term.*

Plato's Euthyphro, Apologia, Crito, Phaedo. Lectures on Greek Philosophy. Rapid translation, with attention to the style and thought of the author. The reading includes introductory chapters of Grote's Plato, and Zeller's Outlines of Greek Philosophy. *Five hours a fortnight during spring term.*

During Sophomore year the cultivation of the "sense of style" and the ability to appreciate Beauty in literature is especially aimed at.

III. Elective for Juniors of Classical Course.

Xenophon's Memorabilia, or one of Plato's Dialogues; Greek Comedy; Pausanias and Strabo. Lectures on Topography, Geography, and Art. Philology,—Baur's Philological Introduction to Greek and Latin. This course is intended for those who desire a wider acquaintance with Greek literature and a more technical knowledge of Grammar and the details of interpretation. *Five hours a fortnight throughout the year.*

IV. Elective for Juniors of Classical Course.

Greek Testament; Greek Fathers. This course provides an introduction to the critical study of New Testament Greek. Especial attention is given to methods of interpretation and to the history of the text. *Five hours a fortnight throughout the year.*

V. Elective for those who have taken Course III.

Greek Lyric Poetry, including Pindar; Aristotle's Ethics or Poetics; Lectures on Philology. *Five hours a fortnight throughout the year.*

MODERN LANGUAGES.

PROFESSOR PRENTICE.

Of the courses given below, Freshmen in the Classical Course are required to pursue either I. French or I. German, but are allowed their option between the two. Candidates for the Latin-Scientific and Scientific Courses are examined at entrance to test their ability to read easy sight passages in French or German as they may elect. Students in the Latin-Scientific Course are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language at their choice. Students in the Scientific Course must, during the first two years, take either I. French, II. French and II. German, or I. German, II. German and II. French, according as they were examined at entrance in German or French.

Aside from these restrictions, each course in either language is open to those who have previously taken the preceding course or courses in the same language.

All the classes in Modern Languages meet five times a fortnight throughout the year.

The courses in this department are as follows:

FRENCH.

I. Otto's French Grammar, Part I. Readings in Voltaire's Louis XIV., edition of Masson and Prothero. In connection with the readings, parts of Harrison's French Syntax are assigned the class for study. Various exercises based on the readings are given in each recitation.

II. Readings from Alliott and Boymier's Auteurs Contemporains; Moliére's Le Misanthrope, Brette's edition; Corneille's Horace; D'Harleville's Le Vieux Cèlibataire, the Pitt Press edition; Sainte Beuve's M. Daru, the Pitt Press edition.

Sight-readings from Auteurs Contemporains, the College Series of French Plays, or Knapp's French Readings.

The sections of Harrison's French Syntax that treat of negation, the uses and succession of the moods, and prosody, are studied in connection with the readings.

GERMAN.

I. Whitney's German Grammar, commencing with the twenty lessons outlined in the preface. Whitney's German Reader. With the readings are assigned daily a part of the passages for translation into German of the second and third series in the supplement to the Grammar. The sentences are put upon the black-board for criticism and correction. After the first examination, special attention is given to gaining a mastery of the irregular verbs and the rules for the gender of the nouns.

II. Selections from Hart's Goethe's Prosa; Schiller's Wilhelm Tell, Buchheim's edition; Lessing's Minna Von Barnhelm, Whitney's edition; Goethe's Iphigenie auf Tauris, Carter's edition. Systematic sight-readings from Stern's Select German Comedies. Grammatical work is connected with the course of reading, special attention being paid to the sections of the Grammar which treat of the construction and order of sentences and the law of Progression of Mutes (sections 426 to 462).

III. Schiller's Wallenstein Trilogy; Lessing's Nathan der Weise; Goethe's Faust. Each play is studied so as to connect it with the general literary movements of its time, as well as with the personal career of its author. Lectures are given on the personal and literary history of every author read. An attempt is made to appreciate the value of the most enlightened criticism to which these dramas have been subjected.

This course is given in alternate years.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR WINCHESTER; MR. TAYLOR AND MR. WILLIAMS.

I. Required of all Freshmen.

ENGLISH LANGUAGE,—Historical Outline. Trench's English Past and Present, with a short course of lectures upon the rise and early history of the language. *Once a week throughout the year.*

II. Required of all Sophomores.

RHETORIC. McElroy's Structure of English Prose, and Gummere's Handbook of Poetics. The members of the class are required to write—in addition to their regular essays—occasional exercises illustrating and applying the principles laid down in the text-books; and they read, for criticism and discussion in the class-room, two or three specimens of the best modern English prose. The writings selected for such reading and criticism this year are Macaulay's Life of Johnson and Carlyle's Essay on Johnson. *Five times a fortnight during the first half-year.*

III. Elective for those who have taken Courses I. and II.

ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's Primer of English Literature, with lectures. *Three times a fortnight throughout the year.*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Spenser's Faery Queen, Cantos I., II.; Shakspere's Hamlet; selections from Pope's Satires. *Once a week throughout the year.*

3. A Brief Course of Collateral Reading. Every member of the class must take one of the courses named below. Schedules of the courses with list of books in biography and criticism may be had in the library. Examinations on this reading are held during the first week in December, the first week in March, and the last week in May. The courses for the present year are as follows:—

(1.) Marlowe's Faustus and Green's Friar Bacon; Shakspere's Henry IV., Twelfth Night, Othello, Cymbeline, and ten sonnets; Bacon's Essays,—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost, Book I., Samson Agonistes.

(2.) Johnson's Lives of Milton, Dryden, Swift, Addison, Pope, and Gray; Milton's Comus and Paradise Lost, Book I.; Dryden's Absalom and Achitophel; Swift's Tale of a Tub; Journal to Stella, letters I.–XII.; Selected Essays of Addison, Winchester's edition; Pope's Rape of the Lock; Gray's Elegy.

(3.) Thackeray's Lectures on Swift, Addison, Steele, Prior, Gay, Pope, Sterne, and Goldsmith; Swift's Tale of a Tub, Battle of the Books, Journal to Stella, letters I.–XII.; Selected Essays of Addison, Winchester's edition; Selected Essays of Steele, Dobson's edition; Goldsmith's Deserted Village, Retaliation, and Vicar of Wakefield; Leslie Stephen's Johnson, chaps. iii., iv.

(4.) Leslie Stephen's Johnson, chaps. iii., iv.; Macaulay's Life of Johnson; Johnson's Rasselas and Vanity of Human Wishes; Cowper's Task, Book I.; Burke's two American Speeches, Reflections on the Revolution in France,—the first half, Letter to a Noble Lord; Burns, —selected poems.

(5.) Burns,—selections; Wordsworth,—selected poems in Arnold's edition; Shelley,—selected poems in Stopford Brooke's edition; Keats' Hyperion, Odes, and Sonnets; Byron,—one canto of Childe Harold; Lamb,—selections from the essays of Elia; De Quincey's Recollections of Lamb and Wordsworth, Suspiria de Profundis; Shairp's Essay on Wordsworth.

IV. Open only to those who have taken Course III.

ENGLISH LITERATURE from 1789 to 1830. Lectures and Discussions. Members of the class will read the principal writings of Burke, Burns, Wordsworth, Lamb, Coleridge, De Quincey, Byron, Shelley, and Keats; and will prepare abstracts and analyses of what they read for discussion before the class. *Five times a fortnight throughout the year.*

V. ENGLISH COMPOSITION. The Freshmen present, once in two weeks, exercises in the simpler forms of composition, which are discussed before the class. This work is under the direction of Mr. Taylor and Mr. Williams. Every member of the Sophomore and Junior classes is required to write nine essays in the year; every Senior must write an argument for debate before his class, and either four essays or two public orations. The Sophomores meet nine times a year for general class discussion and criticism of their themes; and every member of the Junior class meets the Professor privately, once a term, for individual criticism upon his work.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATIONS. The Freshman, Sophomore, and Junior Classes are required to present declamations, mostly of their own selection, fortnightly.

The classes are divided into sections of ten or twelve each, and the exercise for each section occupies one hour. Criticism is made upon personal defects, and suggestions are given with regard to vocal culture and proper courses of practice.

During the Sophomore and Junior years occasional exercises are required to be taken from some particular author.

The work in this department is largely of a practical character, and aims to preserve and develop in each student, as far as possible, his best personal characteristics as a speaker.

II. THEORY OF ELOCUTION. Elective for Juniors and Seniors.

The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given, and the text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation to be delivered before the class for criticism. The purpose of the work of this term is to render each student competent to judge correctly of his own expression of thought and feeling, and to intelligently criticise others.

Twice a week throughout the year.

HISTORY AND POLITICAL ECONOMY.

MR. HARRIS.

I. Elective for Juniors.

HISTORY OF ENGLAND to the end of the eighteenth century. Green's Short History of the English People. Each member of the class is required to pursue a course of collateral reading on the history of a short period and to present before the class an essay based upon his reading.

Five times a fortnight throughout the year.

II. Elective for Seniors.

POLITICAL HISTORY OF THE UNITED STATES from the close of the Revolution to the beginning of the Civil War. Lodge's Hamilton, The Federalist, Lodge's Webster, Webster's Speeches. A systematic history of the whole period is given by lectures. Students are required to present short papers on subjects assigned for reading. *Five times a fortnight throughout the year.*

III. Required of Juniors.

CONSTITUTION OF THE UNITED STATES. Cooley's Principles of Constitutional Law. The Constitution is committed to memory. The text-book is supplemented by running comments on the Constitution as committed, and by lectures: on the government of the colonies, and the attempts at union before the adoption of the Constitution; on the formation and adoption of the Constitution; on the history of the Constitution; on the departments of the government, its officers and their duties; on State and municipal governments; on the "unwritten" constitution; on the constitutions of other nations, especially that of England. *Five times a fortnight during first half-year.*

IV. Required of Seniors.

POLITICAL ECONOMY. Fawcett's Manual of Political Economy. Lectures are delivered on special topics, prominence being given to those subjects which are of most interest in the United States at the present time.

Subjects are assigned to the class on which they are required to write short papers. *Four times a week during second half-year.*

PHILOSOPHY.

MR. SNEATH.

I. Required of all Sophomores.

LOGIC. Jevons' Elements of Logic. The instruction in this course is confined to the simple elements of the science. After a thorough consideration of terms and propositions, a rigid drill in the syllogism is given. Written recitations are sometimes required, especially when the moods and figures of the syllogism and the reduction of syllogisms are the subjects under consideration. *Five times a fortnight during second half-year.*

II. Required of all Juniors.

PSYCHOLOGY. Porter's Elements of Intellectual Science. After the relation of Psychology to the other sciences has been set forth, the various phenomena of consciousness are considered. A careful study of the physical basis of the mind is made, and the student is made familiar with the methods and researches of Physiological Psychology. In connection with the immediate work of the class a brief course of collateral reading is required, on which the student is examined. *Five times a fortnight during second half-year.*

III. Elective for Juniors.

THEISM. Bowne's Studies in Theism, Flint's Theism and Anti-Theistic Theories. After a somewhat extended discussion of the reality of knowledge, in which Agnosticism is thoroughly examined, the class proceeds to the consideration of the arguments for the existence of a personal God. An exhaustive study of the teleological argument is made. The discussion of each of the four Theistic arguments closes with a lecture by some member of the class and another by the instructor. The last half of the year is devoted to an examination of the various anti-Theistic theories, special attention being given to Materialism. Members of the class are selected to prepare lectures or essays on the different theories considered, to be read in the class. *Five times a fortnight throughout the year.*

IV. Elective for Seniors.

HISTORY OF PHILOSOPHY. Schwegler's History of Philosophy. The work in this course consists of a survey of the development of philosophic thought from its beginnings down to recent times; examining the content, internal connection, and historical position of the various systems of philosophy. A more extended exposition and criticism of leading systems than the text-book affords is given by the instructor in supplementary lectures. In the History of Modern Philosophy special attention is given to the Kantian Philosophy. A course of collateral reading is required, on which the class is examined. The work of the year closes with several lectures on the tendencies of philosophic thought to-day. *Five times a fortnight throughout the year.*

ETHICS AND CHRISTIAN EVIDENCES.

PRESIDENT BEACH.

I. Required of all Seniors.

MORAL PHILOSOPHY. The student is expected to make himself familiar with the plan and principles of whatever text-books are

adopted, and to be at any time ready to give a clear and comprehensive outline of his studies. He is, however, not the less expected to do much thinking of his own, and is encouraged and helped to a breadth of study that shall comprehend whatever in theoretical and practical morals the study of the subject should involve. The plan of recitation and discussion followed in the class-room is one intended to put the student into sympathy with the study he is pursuing, and dispose him to those habits of study and thought that will enable him out of himself to derive both his best knowledge and strongest convictions of moral truth and duty. The text-book in present use is Hickok's Ethics, as edited by Seelye. *Four times a week during fall term.*

II. Required of all Seniors.

EVIDENCES OF CHRISTIANITY. The aim of the instruction here, as in Moral Philosophy, is no more to ensure a mastery of the lines of argument presented in the text-book than to stimulate thought and inquiry in all directions pertinent to the general subject. In recitations and examinations, ability to give an intelligent discussion of the various lines of argument involved in the subject is required, rather than minute familiarity with the text-book. The text-book used is Hopkins's Evidences of Christianity. *Four times a week during first half of winter term.*

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. WHITE.

I. Required of Freshmen in the Classical and Latin-Scientific courses.

Solid Geometry; Algebra; Logarithms; Trigonometry, with applications to Surveying and Navigation. *Four times a week.*

Text-Books:—Chauvenet's Geometry; Newcomb's Algebra; Newcomb's Trigonometry; Newcomb's Logarithmic Tables.

II. Required of Sophomores in the Classical and Latin-Scientific courses, and of Freshmen in the Scientific course.

Analytical Geometry of two dimensions. *Three times a week during the first term.*

Text-Book:—Briggs's Analytic Geometry.

III. Elective for Sophomores in the Classical and Latin-Scientific Courses, and Freshmen in the Scientific Course.

An additional course in Analytical Geometry, preceded by a short course in Determinants; Differential Calculus. *Five times a fortnight.*

Text-Books:—Muir's Determinants; C. Smith's Conic Sections; C. Smith's Solid Geometry; Byerly's Differential Calculus.

IV. Elective for those who have taken Courses I. and II.

Differential and Integral Calculus. *Five times a fortnight.*

Text-Books:—Taylor's and Greenhill's treatises on Differential and Integral Calculus.

This course will not be repeated hereafter, but will be replaced by one which will be open only to students who shall have taken Course III.

V. Required of all Seniors.

A general course in Astronomy, requiring only elementary mathematics. *Twice a week.*

Text-Book:—Newcomb and Holden's Astronomy.

This course will be given hereafter in the Junior year.

VI. Elective for those who have taken Course III. or Course IV.

Spherical and Practical Astronomy. *Five times a fortnight, with practical exercises in the Observatory.*

Text-Books:—Doolittle's Practical Astronomy; American Ephemeris and Nautical Almanac.

In addition to the foregoing, the Professor of the department will assist candidates for honors and graduate students in their mathematical reading, meeting them at such times as may be determined by mutual agreement. The book chosen for the current year is Gauss' Theoria Motus Corporum Coelestium.

ASTRONOMICAL OBSERVATORY.

The Observatory is used for purposes of instruction, and is well equipped therefor. Members of the Senior Class have frequent opportunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical Astronomy are instructed in the theory and use of all the instruments of the Observatory.

The principal instruments are an equatorial of 12 inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive

adopted, and to be at any time ready to give a clear and comprehensive outline of his studies. He is, however, not the less expected to do much thinking of his own, and is encouraged and helped to a breadth of study that shall comprehend whatever in theoretical and practical morals the study of the subject should involve. The plan of recitation and discussion followed in the class-room is one intended to put the student into sympathy with the study he is pursuing, and dispose him to those habits of study and thought that will enable him out of himself to derive both his best knowledge and strongest convictions of moral truth and duty. The text-book in present use is Hickok's Ethics, as edited by Seelye. *Four times a week during fall term.*

II. Required of all Seniors.

EVIDENCES OF CHRISTIANITY. The aim of the instruction here, as in Moral Philosophy, is no more to ensure a mastery of the lines of argument presented in the text-book than to stimulate thought and inquiry in all directions pertinent to the general subject. In recitations and examinations, ability to give an intelligent discussion of the various lines of argument involved in the subject is required, rather than minute familiarity with the text-book. The text-book used is Hopkins's Evidences of Christianity. *Four times a week during first half of winter term.*

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. WHITE.

I. Required of Freshmen in the Classical and Latin-Scientific courses.

Solid Geometry; Algebra; Logarithms; Trigonometry, with applications to Surveying and Navigation. *Four times a week.*

Text-Books:—Chauvenet's Geometry; Newcomb's Algebra; Newcomb's Trigonometry; Newcomb's Logarithmic Tables.

II. Required of Sophomores in the Classical and Latin-Scientific courses, and of Freshmen in the Scientific course.

Analytical Geometry of two dimensions. *Three times a week during the first term.*

Text-Book:—Briggs's Analytic Geometry.

III. Elective for Sophomores in the Classical and Latin-Scientific Courses, and Freshmen in the Scientific Course.

An additional course in Analytical Geometry, preceded by a short course in Determinants; Differential Calculus. *Five times a fortnight.*

Text-Books:—Muir's Determinants; C. Smith's Conic Sections; C. Smith's Solid Geometry; Byerly's Differential Calculus.

IV. Elective for those who have taken Courses I. and II.

Differential and Integral Calculus. *Five times a fortnight.*

Text-Books:—Taylor's and Greenhill's treatises on Differential and Integral Calculus.

This course will not be repeated hereafter, but will be replaced by one which will be open only to students who shall have taken Course III.

V. Required of all Seniors.

A general course in Astronomy, requiring only elementary mathematics. *Twice a week.*

Text-Book:—Newcomb and Holden's Astronomy.

This course will be given hereafter in the Junior year.

VI. Elective for those who have taken Course III. or Course IV.

Spherical and Practical Astronomy. *Five times a fortnight, with practical exercises in the Observatory.*

Text-Books:—Doolittle's Practical Astronomy; American Ephemeris and Nautical Almanac.

In addition to the foregoing, the Professor of the department will assist candidates for honors and graduate students in their mathematical reading, meeting them at such times as may be determined by mutual agreement. The book chosen for the current year is Gauss' Theoria Motus Corporum Coelestium.

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The principal instruments are an equatorial of 12 inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive

power; a transit instrument of three inches aperture by Fauth & Co.; a prime vertical instrument of the same size and by the same makers; sextants; two astronomical clocks; a chronometer, and a chronograph.

PHYSICS.

PROFESSOR CRAWFORD.

I. Required of Sophomores in the Classical and Latin-Scientific Courses, and of Freshmen in the Scientific Course.

ELEMENTARY PHYSICS.—Dana's Elementary Mechanics and Stewart's Elementary Physics, the time given to the former being mostly spent in recitations; that to the latter in lectures with experiments. *Three times a week during fall and spring terms, five times a fortnight during winter term.*

II. Elective for those who have taken Course I.

A. SOUND AND LIGHT.—Tyndall's On Sound; Lectures on Vibratory Motion; Glazebrook's Optics. *Five times a fortnight.*

B. ELECTRICITY AND HEAT.—S. P. Thompson's Electricity and Magnetism, Part Second; Stewart's Heat. *Five times a fortnight.*

II. A and II. B are given in alternate years, with some variation in methods and text-books from year to year. II. A is given this year. In these courses numerous experiments are shown, with opportunity for discussion and for examination of instruments on the part of members of the class.

III. Elective for Juniors or Seniors who take, or have taken, II. A or II. B.

PRACTICAL PHYSICS.—In this course the experiments assigned are largely of a character involving accurate measurements, such as those described in Kohlrausch's Physical Measurements or Glazebrook and Shaw's Practical Physics, while many others are added of a simple qualitative nature. Number in class, three. *Those who take this elective must work at least two and a half hours consecutively in the laboratory five times a fortnight throughout the year.*

IV. Elective for those who have taken Course III.

PRACTICAL PHYSICS.—A continuation of the Junior laboratory course, requiring the same amount of time.

The department is supplied with apparatus for the illustration of most of the important principles of physics. The following are some of the principal pieces used in the laboratory: Cathetometer, by

Bamberg; balance, by Bunge; small goniometer, seven-inch circle, by Elliott Bros.; large goniometer, by Hilger, with 18-inch circle (graduated by Troughton & Simms); two of Rutherford's diffraction gratings; diffraction bench, by Duboscq; Jolly's air thermometer; Calorimeter, by Edelmann; most of the important pieces of Koenig's acoustic apparatus; apparatus for electrical measurements, mostly of Elliott Bros.' make, including Thompson's mirror galvanometer, Thomson's quadrant and portable electrometers, sine, tangent, and astatic galvanometers, reading telescope, conductivity apparatus, condenser, resistance boxes, Wheatstone's bridge, thermopiles, etc.

The laboratory is connected with the observatory clocks, and has the use of the chronograph and spectroscopes belonging to the astronomical department.

CHEMISTRY.

PROFESSOR ATWATER; MR. CLARK.

I. Required (this year) of Classical Juniors and Sophomores, of Latin-Scientific Sophomores, and of Scientific Freshmen.

ELEMENTARY CHEMISTRY.—This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. The exercises consist of lectures and laboratory practice, with occasional recitations, chiefly written. Remsen's Introduction to Chemistry is used, as giving very convenient descriptions of experiments. Each student performs the larger number of the experiments there given and numerous others. *Seven times a fortnight during winter term, and six times a fortnight during spring term.*

(Hereafter this course will be required of Classical and Latin-Scientific Sophomores, and Scientific Freshmen.)

II. Elective for those who have taken Course I.

QUALITATIVE ANALYSIS.—It is assumed that Course I. will give sufficient drill in the principles of the science and in laboratory practice to enable the student to work understandingly in qualitative analysis, to which the first year's elective work in the laboratory is, in most cases, devoted. Each exercise occupies at least two and a half hours. Opportunity for spending a longer time in the laboratory is offered to all and utilized by a considerable number of the students. The usual course of preliminary study of reactions and subsequent

analysis of complex substances is pursued. Comparatively little use is made of tables or text-books of qualitative analysis except such as the students prepare for themselves on the basis of their own observations, with the aid, of course, of oral explanations and lectures. *Five times a fortnight throughout the year.*

III. Elective for those who have taken Course II.

QUANTITATIVE ANALYSIS.—This is usually taken up at the beginning of the second year's work in the laboratory. After a series of general exercises for practice, such as are laid down in Fresenius' Quantitative Analysis, the students are encouraged to enter upon special work such as seems desirable in each case. Those who propose to study medicine, for instance, engage in the preparation and determination of the proximate compounds of the body, in urine analysis, or in other work, qualitative as well as quantitative, in physiological chemistry. *Required time the same as for Course II.*

IV. Elective for those who have completed Course I.

ADVANCED CHEMISTRY, ORGANIC, THEORETICAL, AND PHYSIOLOGICAL.—The exercises in this course consist of laboratory work, lectures and recitations, and include also readings and essays upon special topics. The class meet the instructor in a less formal manner than is usual in other subjects. The course is somewhat flexible, and the attempt is made to adapt it to the special wants of the class. It is usually taken after Course II. and in connection with Course III. The following special topics are assigned for the current college year: 1. Atomic weights. 2. Synthesis of organic compounds. 3. Constitution of the albuminoids. 4. Chemical composition of the human body. 5. Chemistry of nutrition. *Five times a fortnight throughout the year.*

V. For students in the Scientific Course who desire to pursue the study of Chemistry beyond the limits of Courses I.–IV., further work is provided.

Candidates for special honors in chemistry pursue special lines of study and laboratory work cognate with those in Course IV.

GEOLOGY.

PROFESSOR RICE.

I. Required of Classical and Latin-Scientific Juniors and Scientific Sophomores.

ELEMENTARY GEOLOGY.—Instruction is given chiefly by lectures, Dana's Text-Book being used for reference. The problems of dynam-

ical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. During a considerable part of the course, the class is divided into two sections in order to afford a better opportunity for the study of specimens. Illustrations of geological principles are taken, so far as practicable, from localities in the immediate vicinity of Middletown; and occasional excursions are arranged to give a knowledge of local geology, and to teach the student how to observe geological phenomena in general. *Three times a week during second and third terms.*

II. Elective for those who have taken Course I.

ADVANCED GEOLOGY.—It is desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy, especially the two former. The first and the second terms are occupied with informal and conversational recitations in Leconte's Elements of Geology, five times a fortnight. This part of the course is intended to give the student a more complete and comprehensive knowledge of the general principles of the science than can be gained in the required course. The subject of Paleontology, especially, is treated much more fully than is possible in the required course. Reference is made continually, in the illustration of the various subjects under discussion, to the reports of geological surveys and other original memoirs. Frequent excursions afford opportunity for practice in observation in the field. The latter part of the year each student is expected to take some special topic for investigation, in the field, the laboratory, or the library, according to the nature of the subject. The class meets occasionally to hear reports of progress from the various members in regard to the topics which each has been studying; and the instructor meets each student as often as may be necessary for direction and assistance in his work.

III. Required of Latin-Scientific and Scientific Freshmen, elective for Classical Sophomores.

PHYSICAL GEOGRAPHY.—Recitations and lectures, with Geikie's Elementary Lessons as text-book. *Five times a fortnight during first term.*

IV. Elective for Classical and Latin-Scientific Juniors and Scientific Sophomores.

MINERALOGY.—This course comprises three parts, each occupying approximately one term:—1, a course in crystallography and physical mineralogy, in which the instruction is given chiefly by lectures,

illustrated by models of crystalline forms and by crystals; 2, a course of laboratory work in determinative mineralogy; 3, a course of lectures on descriptive mineralogy. The lectures on descriptive mineralogy are given in the Museum, so that the characteristics of each important mineral can be illustrated by a full suite of specimens. The works of Dana and Brush are used for reference. *Five times a fortnight throughout the year.*

BIOLOGY.

PROFESSOR CONN.

I. Required of Classical and Latin-Scientific Juniors and Scientific Sophomores.

PHYSIOLOGY.—The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. The object of the course is to give the student a general knowledge of the functions of the various organs of the body in their normal condition. The origin of the energy of the body, its distribution, and final transformations, are treated in accordance with the doctrine of the conservation of energy. Enough anatomy is given to render the physiological discussions intelligible, and enough of hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures. *Six hours a week during eleven weeks of fall term.*

II. Required of Latin-Scientific and Scientific Freshmen, elective for Classical Sophomores.

BOTANY. — Gray's Lessons. Lectures on physiological botany, cryptogamic botany, and other subjects not treated in the text-book. Both lessons and lectures are illustrated, as far as possible, by specimens, especial attention being given to microscopic structure. As soon as the season allows, in the spring, the class-room exercises are replaced by laboratory work, and the rest of the time until Commencement is spent in practical laboratory work, including analysis and description of plants, and the study of structural botany. *Five times a fortnight during winter and spring terms.*

III. Elective for Classical Juniors, and for Latin-Scientific and Scientific Sophomores.

ZOOLOGY.—Lectures and recitations. This course is designed to give the student a knowledge of the phenomena connected with life in general. Typical examples illustrating the various groups of the

animal kingdom are described, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied as well as their adult anatomy. *Five times a fortnight.*

IV. Elective for Juniors.

PRACTICAL BIOLOGY.—Those who elect this course spend two and a half consecutive hours in the laboratory five times a fortnight, and get practical knowledge of the use of the microscope and dissecting instruments. Those taking the study for only one year have a course planned according to the need and desires of the individual. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of Biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mould, chara, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, various principles of Biology, comparative anatomy, and embryology.

V. Elective for those who have taken IV.

PRACTICAL BIOLOGY.—The second year is devoted to experiments in physiology, the study of histology, and mammalian anatomy. *Time required same as in IV.*

Courses IV. and V. are open to only a limited number of students.

Tabular Statement of the Courses of Study.

The Arabic numerals indicate approximately the whole number of exercises for the year in the respective studies.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	150	I. Mathematics,	150
I. Greek,	150	I. English,	35

ELECTIVE.

(One to be chosen.)

I. French,	90	I. German,	90

SOPHOMORE YEAR.

REQUIRED.

II. Latin,	90	Analytical Geometry,	40
II. Greek,	90	I. Physics,	100
Rhetoric,	45	I. Chemistry,	75
Logic,	45		

ELECTIVE.

(One to be chosen.)

III. Mathematics,	90	Botany,	55
II. French,	90	Physical Geography,	35
II. German,	90		

JUNIOR YEAR.

REQUIRED.

Astronomy,	70	Psychology,	45
I. Geology,	80	Constitution of U. S.,	45
Physiology,	65		

ELECTIVE.

(Three to be chosen.)

IV. Mathematics,	90	Elocution,	75
II. Physics,	90	I. History,	90
III. Physics (Practical),	90	Theism,	90
II. Chemistry (Practical),	90	III. Latin,	90
IV. Biology (Practical),	90	III. Greek (Classical),	90
Zoology,	90	IV. Greek (Biblical),	90
Mineralogy,	90	III. German,	90
III. English (Literature),	90		

SENIOR YEAR.

REQUIRED.

Ethics,	50
Christian Evidences,	25
Political Economy,	55

ELECTIVE.

(Four to be chosen.)

Practical Astronomy,	85	History of Philosophy,	85
IV. Physics (Practical),	85	II. History,	85
III. Chemistry (Practical),	85	IV. English (Literature),	85
IV. Chemistry,	85	IV. Latin,	85
V. Biology (Practical),	85	V. Greek,	85
II. Geology,	85		

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	150	Botany,	55
I. Mathematics,	150	Physical Geography,	35
I. English,	35		

ELECTIVE.

(One to be chosen.)

I. French,	90	I. German,	90
II. French,	90	II. German,	90

SOPHOMORE YEAR.

REQUIRED.

Analytical Geometry,	40	Rhetoric,	45
I. Physics,	100	Logic,	45
I. Chemistry,	75		

ELECTIVE.

(Three to be chosen.)

III. Mathematics,	90	Zoology,	90
II. Latin,	90		

NOTE.—In choosing elective studies, the student is at liberty to select not only from the list of such studies assigned to his own class, but also from those assigned to lower classes.

JUNIOR YEAR.

Same as in the Classical Course, with the omission of the electives in Greek and Zoology.

SENIOR YEAR.

Same as in the Classical Course, with the omission of the elective in Greek.

SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

Analytical Geometry,	40	I. English,	35
I. Physics,	100	Botany,	55
I. Chemistry,	75	Physical Geography,	35
I. German,	90	or I. French,	90
II. French,	90	II. German,	90

Students must take the first two, or the second two, of the above courses in Modern Languages, according as they have passed in the French or the German required for admission. In the first case they must take II. German, in the second case, II. French, in Sophomore year.

NOTE.—Those who desire to elect III. Mathematics may do so by postponing one of the courses of Freshman year.

SOPHOMORE YEAR.

REQUIRED.

Astronomy, } I. Geology, } Physiology, }	70 80 65	Rhetoric, } Logic, }	45 45

ELECTIVE.

(Two to be chosen, besides either II. French or II. German.)

III. Mathematics,	90	Mineralogy,	90
IV. Mathematics,	90	Zoology,	90
II. Physics,	90	III. German,	90
II. Chemistry (Practical),	90		

NOTE.—The Course IV. Mathematics is open only to those who have taken III. Mathematics in Freshman year.

JUNIOR YEAR.

REQUIRED.

Psychology, } Constitution of U. S., }	45 45

ELECTIVE.

(Five to be chosen.)

III. Physics (Practical),	90	II. Geology,	85
III. Chemistry (Practical),	90	III. English (Literature),	90
IV. Chemistry,	85	Elocution,	75
IV. Biology (Practical),	90	I. History,	90
Practical Astronomy,	85	Theism,	90

SENIOR YEAR.

REQUIRED.

Same as in Classical Course.

ELECTIVE.

(Four to be chosen.)

IV. Physics (Practical),	85	History of Philosophy,	85
V. Biology (Practical),	85	II. History,	85
V. Chemistry,	85	IV. English (Literature),	85

NOTE.—A brace enclosing the names of two or more studies indicates that those studies jointly extend through the year, the time being divided between them.

The preceding tables present the course of study that will be followed hereafter. The course for the current year is transitional between this and the course heretofore prevailing.

SELECTION OF STUDIES.

In making a selection among the elective studies, the following rules are to be regarded:—

A student may take elective studies assigned to a class below his own, as well as those assigned to his own class; but not those assigned to a class above his own, except by special permission of the Faculty. The election must in all cases be made for the whole year, no changes from one department to another being permitted during the year. Studies must be selected whose hours of recitation do not conflict with each other, as indicated by the tabular statement on the next page. The student's selection must in all cases be subject to the approval of the Faculty.

In order to avoid misunderstanding, each student is required to present to the Secretary of the Faculty, on the first day of the Fall Term, a list of the studies which he desires to take.

In the table given on the next page each study is assigned to that year to which it belongs in the Classical Course. Exercises named without any sign or initial are daily exercises. Exercises which occur on alternate days are denoted by the signs * and †. Of these half-studies, those which are marked with the same sign occur on the same days; those marked with different signs occur on alternate days. It will be observed that recitations in half-studies assigned to the same hour will interfere with each other only when they are marked with the same sign. Letters following the names of studies indicate the days of the week on which certain exercises occur. Letters in connection with the sign * or † indicate that an exercise occurs on the day mentioned in those weeks only in which other exercises marked with the same sign occur on that day. Arabic numerals following the names of certain studies indicate the sections into which the classes are divided. Roman numerals are used to distinguish different courses in the same department, having the same significance here as in the reports of the Departments of Instruction.

ORDER OF RECITATIONS.

SENIORS.	JUNIORS.	SOPHOMORES.	FRESHMEN.
8. IV. Chemistry.*	Physiology. I. Chemistry. I. Geology. } S.	II. Mathematics. I. Chemistry. I. Physics. } S. III. Mathematics.* II. German.†	I. Greek. 1. S. I. Latin. 1. S. I. German. 2.*
9. V. Greek.* II. Geology.† II. History.*	III. English (Literature.)† II. Physics.*	II. Greek.† II. French.†	I. Mathematics. 1. M., Tu., W., F. I. Mathematics. 1. (Second Term) Th.† I. Latin. 2. Tu., W., Th. I. Latin. 2. (First Term) M.†
10. Astronomy. M., Tu., W., Th.* IV. English (Literature). 1.†	Psychology. Constitution. } * IV. Greek (Biblical).† Declamation. 2. W.†	Physical Geography. 1. Botany. } † Declamation. 2. Th.†	I. German. 1.* Declamation. 1. Th.*
11. Practical Astronomy.* IV. English (Literature). 2.†	IV. Mathematics.† III. Greek (Classical).† Elocution. W., Th. III. Latin.† Zoology.*	Physical Geography. 2.† Botany.†	I. French.*
12. Ethics. Evidences. Polit. Econ. } Tu., W., Th., F.	Physiology. I. Chemistry. I. Geology. }	II. Mathematics. I. Chemistry. I. Physics. }	I. Latin. 1. Tu., W., Th., F. I. Latin. 1. (First Term) M.† I. Greek. 2. M., Tu., Th., F. I. Greek. 2. (Third Term) W.†
2.	Declamation. 3. W.† Declamation. 4. Tu.*	Declamation. 3. Tu.† Declamation. 4. W.*	Declamation. 2. Th.*
3.	Theism.† Declamation. 1. Tu.*	II. Latin. 2.† Logic. 2.* Declamation. 1. Th.†	I. English. F. I. Greek. 1. M., Tu., Th. Composition. 2. W.* Declamation. 3. Th.* Declamation. 4. W.†
4. IV. Latin.* History of Philosophy.†	I. History.†	Rhetoric. Logic. 1. } * II. Latin. 1.†	I. Greek. 1. (Third Term) W.† I. Mathematics. 2. M., Tu., W., F. I. Mathematics. 2. (Second Term) Th.† Composition. 1. Th.†

The Chemical Laboratory is open for students in Practical Chemistry, on the days denoted by a *, from 2 P. M. till 6 P. M.; the Biological Laboratory and the Physical Laboratory are open for students in Practical Biology and Practical Physics respectively, on the days denoted by a †, from 2 P. M. till 5 P. M. Each student electing either of these studies is required to spend at least two and a half hours consecutively in the Laboratory.

Examinations.

Examinations, either oral or written, are held in all the studies of the course. The oral examinations are held near the close of the college year, and are conducted before Examining Committees appointed by the Executive Committee of the Trustees. The written examinations are held whenever the respective studies are finished; but the papers are reserved for inspection by the Examining Committees. No student who has been absent from fifteen per cent. or more of the required exercises in any study, can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences are not due to culpable negligence. No student who has been absent from ten per cent. or more of the required exercises in any study can be admitted to the regular examination in that study without first passing a preliminary examination.

Special examinations will be held during the third term for those who have been absent, by permission, from the regular examinations which have occurred in the previous part of the year.

A special examination will be held, commencing on the Tuesday before the beginning of the first term, for those who shall have failed to pass any of the examinations of the preceding year. Students who fail to pass at this examination will be required to attend recitations with the next class in the studies in which they are deficient, and to be examined with the class at the regular time. Those, however, whose failure to pass shall have been due to necessary absence from examinations, may be excused by the Faculty from the requirement of attendance upon recitations, provided their scholarship shall be deemed sufficiently good.

A student desiring to take more than the prescribed quota of elective studies may present himself at the special examination, at the

beginning of the first term, to be examined in advance in any required study, and, on showing evidence of a high degree of proficiency, he may be excused from recitation in that study.

Public Worship.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city. Each student is allowed to elect what church he will attend, and is required to report such election to the Registrar at the beginning of each college year.

Leave of Absence.

No student is allowed to be absent from college without permission from the President.

The time appropriated to vacation is believed to be ample for the purpose of relaxation from study; and, in view of the unfavorable effect of all absences, either at the commencement or at any other period of the term, upon the standing and proficiency of the student, the Faculty earnestly request that parents and guardians will in no way encourage, or even sanction, such absences, without very urgent reasons.

Expenses.

The annual charges in the Treasurer's bill are as follows:

Tuition, - - - - - - - -	$75 00
Room Rent, from $12.00 to $36.00; average, -	26 00
General Repairs and Incidental Expenses, -	21 00
Use of Library and Reading Room, - -	6 00
Total, - - - - - - - -	$128 00

Students in Practical Chemistry are charged for the use of apparatus, for chemicals, and incidentals. This charge averages about eleven dollars a term.

A fee of five dollars a term is charged to each student in Practical Physics.

A diploma fee of five dollars is charged to each student at graduation.

Persons holding *free*, *personal*, or *transferable* scholarships are exempt from charges for tuition.

The college bills are payable at the commencement of each term; to any bill not paid on presentation after one week's notice, five per cent. will be added. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town; but the places in which they room or board must in all cases be subject to the approval of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Board may be obtained in private families at prices varying from $3.00 to $5.00 a week. A large majority of the students board in clubs, at prices ranging from $2.50 to $4.00 a week.

Students provide for themselves furniture, fuel, lights, and books.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

Gymnasium.

The Gymnasium provides all the students, under certain rules and conditions, with opportunities for physical exercise, and is furnished with apparatus suitable for this purpose.

Library and Reading Rooms.

The Library in Rich Hall contains about thirty-five thousand volumes. The library hall is open every week day of term time, except Saturdays, from 10 A. M. to 1 P. M., and from 2 to 4 P. M.; on Saturdays, from 9 A. M. to 1 P. M. No student may take from the Library more than two books at a time, without special permission; books are loaned for two weeks, with the privilege of renewal, in the case of most books, for two weeks longer.

Books reserved by request of officers of instruction as collateral reading for students in their classes are shelved in a separate reading-room, can be taken out only at the close of library hours, and must be returned upon the opening of the library.

The books are catalogued on cards, on the so-called dictionary plan. Direct access to the shelves is allowed to all, in order that they may secure the benefit derived from selecting and examining the books themselves. Assistance is freely given by the Library staff when called for; but it is expected that students will consult for themselves the catalogues, indexes, and other helps, and thus learn the use of literary tools.

Visitors are always welcome, and at liberty to consult the Library.

About $1,100 is spent for the increase of the Library annually.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. The second, or Library reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

Museum.

The Museum of Natural History occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with especial reference to educational purposes, and are freely accessible to students.

The nucleus of the Departments of Zoölogy and Botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions, in liberal donations from the Smithsonian Institution, and in collections made by the curators on the coast of New England through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort Collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique.

The following is an approximate statement of the number of specimens in the various departments of the Museum:

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350

Amphibians,	125
Fishes,	2,100
Insects—pinned and alcoholic,	3,600
nests, borings, &c.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Coelentera,	1,500
Sponges and Protozoa,	100

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,000
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	9,600
Fossils—Paleozoic,	2,600
Mesozoic,	800
Cenozoic,	1,000

The Museum is open to the public on Wednesday and Saturday afternoons.

Scholarships.

A limited number of *Free Scholarships*, exempting the holder from the charge for Tuition, have been established by the Trustees, and are available at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:

The John Evans Scholarship.

This Scholarship has been founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is yearly to be given to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. Only such as are preparing themselves for the ministry and are already licentiates in the Methodist Episcopal Church, can be candidates for this Scholarship.

The Squire Scholarship.

This Scholarship has been founded by Watson C. Squire, B. A. The income of it, amounting to one hundred and fifty dollars, will be awarded to that member of the Senior Class who shall pass the best examination in Greek, provided he pursue a course of study in Middletown, under the direction of the Faculty, for at least one year after graduation.

The Seney Scholarships.

These have been established by George I. Seney, M. A. They are forty-eight in number, and are divided among the classes equally. They will be awarded on the basis of the merit-roll, under such conditions as the founder of the Scholarships has prescribed. Their

precise value for any year will depend on the income of the Scholarship Fund. For the present year they will range from one hundred to one hundred and fifty-five dollars. It is stipulated by the founder of the Scholarships that no student shall be considered a candidate for any one of them who was not in attendance upon college exercises throughout the year for which the Scholarship is awarded, nor shall any Scholarship, though awarded, be paid to one who is absent from college during the year, or during any considerable part of the year, in which it is payable. No one who is regularly employed as a preacher or teacher, shall during the year in which he is so occupied, be considered a candidate for any of these Scholarships. Nor shall any student be considered as a candidate for them during any year in which he has been the subject of serious college discipline.

The Scholarships for the three lower classes will be awarded as soon after the beginning of each academic year as the record of standing for the previous year can be prepared; and will be paid in three installments:—the first, immediately upon the assignment of the Scholarships; the second, at the beginning of the Winter Term; the third, at the beginning of the Spring Term.

The Senior Scholarships will be awarded two weeks before Commencement, and be paid at that time in one payment.

The corporation of the college assumes responsibility for the payment of the Scholarships only to the measure of the income of the Scholarship Fund.

PRIZES.

The following prizes will be awarded during the present year:

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior Class whose oration at Commencement shall be deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of Rhetoric on or before Tuesday, June 21st.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior Class who shall excel in English Composition. The subject for the essay of 1887 is, "Religion and the French Revolution." The subject for the essay

of 1888 is "Calhoun's Argument for Secession." The essays must be left with the Professor of Rhetoric on or before the first Monday of the Third Term.

The Harrington Prize will be awarded to that member of the Senior Class who shall excel in History. The subjects for the examination of 1887 are:—The Studies of the Department for the Senior year.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior Class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior Class who shall write the best essay on Political Economy. The essays must be left with the Instructor in the Department on or before the first Monday in May.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded to that member of the Senior, Junior, or Sophomore Class who shall excel in Natural Science. The examination for this prize this year will be in Chemistry.

A Prize, the gift of G. Brown Goode, M. A., will be given for the best Original Investigation in the Department of Natural History.

The Howell Prize, the gift of Hon. James Howell, and the George E. Reed Prize, the gift of Rev. George E. Reed, D. D., will be awarded as a first and second prize, respectively, to the two members of the Junior Class who shall present the best orations at the annual Junior Exhibition. In the decision of these prizes, both the composition and the delivery of the orations will be considered.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior Class who shall excel in English Literature.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior Class who shall excel in Logic.

A Prize will be awarded to that member of the Junior Class who shall excel in debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be given to that member of the Junior Class who shall excel in Metaphysics.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore Classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded as a second prize for excellence in Elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore Class who shall excel in the Greek language.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore Class who shall excel in the Latin language.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore Class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman Class who shall excel in Greek.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman Class who shall excel in Declamation.

The J. D. Miller Prize, the gift of Rev. Jahu Dewitt Miller, will be awarded to that member of the Freshman Class whose work in English Composition shall be judged best.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman Class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in either of the college classes, who shall write the best English poem. The poem must be left with the Professor of Rhetoric before the Senior Examination.

The designation of the classes to which the prizes are offered respectively is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold either of these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:

The Rich Prize, to George Copeland Boswell.

The Olin Prize, to George Copeland Boswell.

The Harrington Prize, to William Barker Gwinnell.

The Wise Prize, to Edward Bennett Rosa.
The Joseph D. Weeks Prize, to George Avery Rich.
The Peirce Prize, to George Phelps Wardell.
The Howell Prize, to Herbert Welch.
The George E. Reed Prize, to Odell Seymour Smith.
The Camp Prize, to Herbert Welch.
The Weeks Prize, to Charles Wesley Lyon.
The Miller Prize, to Herbert Welch.
The David A. Walkley Prize, to Frank Henry Richmond.
The Parker Prize, to Walter Russell Breed.
The Scranton Prize, to Herbert Welch.
The Spinney Prize, to Kate Bertha Mitchell.
The Phi Beta Kappa Prize, to Howard Hornbeck Hawxhurst.
The Rice Prize, to Joseph Ward Lewis.
The Sherman Prize, to Fred Morgan Davenport.
The Hibbard Prize, to Henry Frank Mandeville.
The J. D. Miller Prize, to Mary Graham.
The Ayres Prize for the present year has been awarded to Edward Arthur Bawden.

HONORS.

The speakers at the Junior Exhibition and at Commencement are selected according to the standing in Composition and Declamation subsequent to the Freshman year.

There are two grades of honor conferred at graduation, based upon the general standing of the whole course. Eighty-eight per cent. of the maximum standing entitles a student to the first grade of honor, and eighty-three per cent. to the second grade.*

Special honors are also given at graduation in each of the following departments:—

Latin; Greek; Modern Languages; Rhetoric and English Literature; Logic; Psychology and Ethics; Political and Social Science, including History; Mathematics; Physics; Chemistry; Biology; Geology.

* The scale of marking in practical use is such that the best students in any department receive about ninety-two per cent. of the absolute maximum.

The candidate for special honors must apply to the officer or officers of the department in which he proposes to take honors, not later than the first Monday in May of the Junior Year. He must pass, at the regular or special examinations, in all the studies (both required and elective) in the department in which he proposes to take honors, and must maintain in that department an average standing not lower than eighty per cent. of the maximum. He must, in addition, pursue such a course of collateral reading or investigation as shall be prescribed by the officer or officers in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer or officers of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

The honors, both general and special, are stated in the diploma; and the names of students who take honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:

Honors in General Scholarship.

First Grade.—George Copeland Boswell, Clinton Dewitt Burdick, William Barker Gwinnell, John Calvin Packard, George Avery Rich, Edward Bennett Rosa, George Phelps Wardell.

Second Grade.—Bertha Bass, Edward Lynn Blaine, Charles Wesley Blakeslee, William Brill, Walter Perley Buck, Arthur William Byrt, Wilbur Fisk Dales, Helena Lovina Day, Michael Joseph Donahoe, Herbert Elmer Drake, Edgar Alfred Emens, Winfield Scott Manship, Lillie Blanche Mathewson, Frank Edwin Williams.

Honors in Special Departments.

Greek.—Aeschines on the Crown, entire. Demosthenes on the Crown, entire. Thesis—Ancient and Modern Oratory compared; Demosthenes and Webster.

To Arthur William Byrt.

The Trachinians of Sophocles. The Medea of Euripides. The Prometheus of Aeschylus. Thesis—A classification of the Temples, Statues, Paintings, and other Works of Art at Athens, as seen and described by Pausanias.

To Wilbur Fisk Dales.

Selections from Pindar's Epinician Odes. Thesis—Scientific Etymology. The Epistles of Pindar.

To Helena Lovina Day, Herbert Elmer Drake, Lillie Blanche Mathewson.

Latin.—Selections from Terence and Martial. Whitney's Life and Growth of Language. Essays on the Deponent Verbs in Plautus.

To Edward Lynn Blaine, Wilbur Fisk Dales, Herbert Elmer Drake, Edgar Alfred Emens.

Mathematics.—Theoretical Astronomy, with computation of the orbit of Fabry's Comet (1886 I.).

To Edward Bennett Rosa.

Physics.—Analytic Mechanics. Pendulum experiments.

To John Calvin Packard.

Elements of Mathematical Theory of Electricity. Experiments on the Retardation of Sound in Tubes.

To Edward Bennett Rosa.

Chemistry.—Original Laboratory Work on the Determination of Nitrogen by the Soda-lime Method. Studies in Theoretical Chemistry, with Essay on Methods of Determining Atomic Weights.

To Everett Meacham Ball.

Modern Languages.—Molière's L'Avare, and Corneille's Le Cid, with an Essay on Corneille's Life and Writings, founded on Sainte Beuve's articles on Corneille, and Guizot's Life of Corneille.

To Charles Warren Hawkins.

English Literature.—The Dramas of Shakspere, with some study of the contemporary dramatists. Essay upon The Political Ideas of Shakspere.

To Winfield Scott Manship.

Philosophy.—Lotze's Metaphysic.

To Charles Wesley Lyon, Jr.

Political and Social Science.

I. English History.—Reign of George III.

With Essay on English Rule in Ireland. To William Barker Gwinnell.

With Essay:—Some Investigations in the History of Education. To Frank Edwin Williams.

II. American History.—Economic and Financial Questions of the Administrations of Andrew Jackson.

With Essay:—The Old Ship, a contribution to local history of Massachusetts. To George Avery Rich.

With Essay:—Some Evidences of Change of Political Thought in the South. To Arthur William Byrt.

Degrees.

The following degrees are conferred by the University, in course:

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

MASTER OF ARTS.—This degree may be conferred on any Bachelor of Arts, of three years' standing or more, who has been engaged since graduation in some literary occupation. Persons who intend to take this degree must apply to the President as early as the Monday preceding Commencement, and advance the usual fee.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

Obituary Record.

Obituary notices of deceased graduates of the University are published annually. All persons who can supply information appropriate to the future editions of this Record, are urgently requested to communicate the same to Professor C. T. Winchester.

Alumni Record.

Through the liberality of Orange Judd, Esq., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students of the College not graduates, with their present residences and such other information with reference to them as the most thorough search can obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work

done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Librarian, Mr. W. K. Stetson. The price of the Record, when sent by mail, is two dollars and twenty-five cents.

Information in regard to changes of residence or address of Alumni, or to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with the Librarian, Mr. W. K. Stetson.

CALENDAR.

1886.

Sept. 16, Thursday—First Term commenced.
Dec. 22, Wednesday—First Term will close.

VACATION OF TWO WEEKS.

1887.

Jan. 6, Thursday—Second Term will commence.
April 5, Tuesday—Junior Exhibition.
April 6, Wednesday—Second Term will close.

VACATION OF ONE WEEK.

April 14, Thursday—Third Term will commence.
June 8, Wednesday—Senior Examination will commence.
June 8, Wednesday—Prize Debate and Declamation.
June 21, Tuesday—Annual Examination will commence.
June 24, Friday—Prize Declamation.
June 26, Sunday Morning—Baccalaureate Sermon.
June 26, Sunday Evening—University Sermon.
June 27, Monday—Class Day.
June 28, Tuesday—Anniversaries of the Literary Societies.
June 28, Tuesday—Meeting of the Board of Trustees, at 9 o'clock A.M.
June 29, Wednesday — Business Meeting and Anniversary of the Alumni Association.
June 29, Wednesday—Reunion of Classes of 1862, '72, '77, '80, and '84.
June 30, The last Thursday of June—COMMENCEMENT.
July 1, Friday—Examination of candidates for admission will commence.

VACATION OF TWELVE WEEKS.

Sept. 13, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 14, Wednesday—Examination of candidates for admission will commence.
Sept. 15, Thursday—First Term will commence.
Dec. 21, Wednesday—First Term will close.

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CALENDAR, 1887

JANUARY

S	-	2	9	16	23	30
M	-	3	10	17	24	31
T	-	4	11	18	25	X
W	-	5	12	19	26	X
T	-	6	13	20	27	X
F	-	7	14	21	28	X
S	1	8	15	22	29	X

FEBRUARY

S	-	6	13	20	27	
M	-	7	14	21	28	
T	1	8	15	22	X	
W	2	9	16	23	X	
T	3	10	17	24	X	
F	4	11	18	25	X	
S	5	12	19	26	X	

MARCH

S	-	6	13	20	27	
M	-	7	14	21	28	
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W	2	9	16	23	30	
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F	4	11	18	25	X	
S	5	12	19	26	X	

APRIL

S	-	3	10	17	24	
M	-	4	11	18	25	
T	-	5	12	19	26	
W	-	6	13	20	27	
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MAY

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W	4	11	18	25	X	
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F	6	13	20	27	X	
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JUNE

S	-	5	12	19	26	
M	-	6	13	20	27	
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JULY

S	-	3	10	17	24	31
M	-	4	11	18	25	X
T	-	5	12	19	26	X
W	-	6	13	20	27	X
T	-	7	14	21	28	X
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AUGUST

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SEPTEMBER

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M	-	5	12	19	26	
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OCTOBER

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M	-	3	10	17	24	31
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W	-	5	12	19	26	X
T	-	6	13	20	27	X
F	-	7	14	21	28	X
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NOVEMBER

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S	5	12	19	26	X	

DECEMBER

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1888

JANUARY

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FEBRUARY

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S	4	11	18	25	X	

MARCH

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APRIL

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M	2	9	16	23	30	
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W	4	11	18	25	X	
T	5	12	19	26	X	
F	6	13	20	27	X	
S	7	14	21	28	X	

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—OF—

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1887-88.

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The term of office is five years, the official year beginning on the Tuesday preceding the Annual Commencement.

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18 N. C.

LEVI OSCAR KUHNS, B. A.,
LIBRARIAN.
7 S. C.

STUDENTS.

GRADUATE STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Edwin Fish, Ph. B., ENGLISH LITERATURE.	*Trinidad, Col.*	*99 Court St.*
John Littlefield Tilton, B. A., BIOLOGY AND MINERALOGY.	*Nashua, N. H.*	18 N. C.
Jennie Van Vleck, B. A., ENGLISH LITERATURE.	*Middletown.*	*76 Church St.*

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
Frederic Gibbs Axtell,	*Milford.*	10 O. H.
Harry Harvey Beattys,	*Brooklyn, N. Y.*	9 S. C.
† John Law Bridge,	*Hazardville.*	34 N. C.
William Evans Bruner,	*Columbia, Pa.*	9 S. C.
Edward Washington Burke,	*Federalsburg, Md.*	Δ. K. E. *House.*
Henry William Camier,	*Middletown.*	50 N. C.
William Morton Cassidy,	*E. Boston, Mass.*	38 N. C.
Charles Phillips Cooper,	*Canandaigua, N. Y.*	26 N. C.
Ernest Russell Deane,	*Edgartown, Mass.*	Δ. K. E. *House.*
§ Harvey William Fellows,	*Troy, N. Y.*	Δ. K. E *House.*
William Elliott Foster,	*Middletown.*	*90 Court St.*
§ Henry Pinnie Griffin,	*Granby.*	Δ. K. E. *House.*
§ Charles Minot Griffith,	*Perry, N. Y.*	*114 High St.*
Roland Wilkins Guss,	*Philipsburg, Pa.*	28 N. C.
Morton Lee Hall,	*Bakersfield, Vt.*	*120 High St.*

NAMES.	RESIDENCES.	ROOMS.
George Dempster Hamlen,	*Fall River, Mass.*	Δ. K. E. *House.*
Frederic Hobart Lawrence Hammond,	*Ansonia:*	A. Δ. Φ. *House.*
Howard Hornbeck Hawxhurst,	*Somers' Centre, N. Y.*	A. Δ. Φ. *House.*
Fred Alexander Hillery,	*Montpelier, Vt.*	36 N. C.
Thomas Arthur Humason,	*New Britain.*	A. Δ. Φ. *House.*
Robert Seney Ingraham,	*Brooklyn, N. Y.*	*75 High St.*
Arthur Wilson James,	*East Rush, Pa.*	14 N. C.
William Avery Knox,	*Middletown.*	10 N. C.
§ Frederick William Lange,	*Scranton, Pa.*	A. Δ. Φ. *House.*
Joseph Ward Lewis,	*Gt. Barrington, Mass.*	*39 Broad St.*
Harry Keiser Munroe,	*Bloomfield, N. J.*	18 O. H.
Theophilus England Niles,	*Ashland, N. Y.*	X. Ψ. *House.*
§ George Levi Rice,	*Tinmouth, Vt.*	Δ. K. E. *House.*
§ Herbert Lowell Rich,	*Newport, R. I.*	18 O. H.
Theodore Richards,	*Montclair, N. J.*	34 N. C.
William Barnard Smith,	*Middlebury.*	A. Δ. Φ. *House.*
† Aaron Louis Treadwell,	*Redding.*	X. Ψ. *House.*
Thomas Dudley Wells,	*Belmont, N. H.*	36 N. C.
§ Marcus White,	*Farnumsville, Mass.*	*8 Wyllys Av.*
§ Alice May Hotchkiss,	*Middletown.*	*31 Church St.*
Mary Elizabeth Smith Mendall,	*Brooklyn, N. Y.*	*135 High St.*
Kate Bertha Mitchell,	*Remsen, N. Y.*	*135 High St.*

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
Dudley Chase Abbott,	*Bloomfield.*	Ψ. Υ. *House.*
Edward Everett Abercrombie,	*Worcester, Mass.*	C O. H.
Arthur Newell Burke,	*Norwich.*	*19 Wyllys Av.*
§ Henry Havens Chatfield,	*Bridgehampton, N. Y.*	Δ. K. E. *House.*
† William Lawrence Clarke,	*Pawling, N. Y.*	64 N. C.

NAMES.	RESIDENCES.	ROOMS.
Seward Vincent Coffin,	*Middletown.*	*112 Main St.*
Thomas Roy Crooks,	*Philadelphia, Pa.*	C O. H.
Fred Morgan Davenport,	*New Milford, Pa.*	*82 Church St.*
Bernard Marcus Davis,	*Seymour.*	44 N. C.
§ William Bradford Eaton,	*Springfield, Mass.*	11 O. H.
Julius Wilbur Eggleston,	*Hempstead, N. Y.*	29 N. C.
§ Fred Beauregard Faber,	*Seymour.*	12 N. C.
Henry Floy,	*Elizabeth, N. J.*	11 S. C.
Willie Irving Ford,	*Danville, Va.*	Δ. K. E. *House.*
George Washington Gardiner, Jr.,	*Lafayette, R. I.*	17 N. C.
Mark Willson Gill,	*Portland, Or.*	3 O. H.
§ George W. Meek Glenn,	*Fillmore, Pa.*	32 N. C.
Herbert Augustus Hill,	*Bridgeport.*	*7 Wyllys Av.*
George Mead Hughes,	*Orange, N. J.*	9 O. H.
§ Orville Edson Johnson,	*Marblehead, Mass.*	11 O. H.
§ Percy Lincoln Johnson,	*Bridgeport.*	14 O. H.
§ George Frederic Kettell,	*Brooklyn, N. Y.*	*19 Wyllys Av.*
Samuel Gail Landon,	*Rummerfield, Pa.*	*82 Church St.*
Seymour Landon,	*Bordentown, N. J.*	10 O. H.
John Elijah Loveland,	*Middletown.*	*39 Broad St.*
§ George Elbert Manchester,	*West Winsted.*	38 N. C.
Henry Frank Mandeville,	*Brooklyn, N. Y.*	*1 Wyllys Av.*
Edward Ernest Matthews,	*Newark, N. J.*	*19 Wyllys Av.*
Arthur Herbert Meritt,	*West Eaton, N. Y.*	16 N. C.
† Rowland Miles,	*Northport, N. Y.*	9 O. H.
Harry Summerfield Noe,	*Dalton, Mass.*	4 N. C.
Arthur W. Partch,	*Hiawatha, Kan.*	32 N. C.
William Claflin Prentice,	*Middletown.*	*1 Wyllys Av.*
William Emory Smyser,	*Chambersburg, Pa.*	Δ. K. E. *House.*
Jared Sweet Tillinghast,	*Middletown.*	*112 High St.*
§ Charles Perley Tinker,	*New London.*	A. Δ. Φ. *House.*
Everett Hustis Travis,	*Matteawan, N. Y.*	30 N. C.
Fred Van Dorn,	*Mount Morris, N. Y.*	8 N. C.
§ Willard Ives Warriner,	*Port Washington, N. Y.*	14 O. H.
† Jordan Coveydogue Wells,	*Brooklyn, N. Y.*	50 N. C.
† Alfred Northam Wright,	*Essex.*	33 N. C.
§ Elizabeth Arbuckle Craig,	*Middletown.*	*18 Hubbard St.*
§ Mary Graham,	*Brooklyn, N. Y.*	*135 High St.*

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Howard Townsend Alexander,	*Elizabeth, N. J.*	Δ. K. E. *House.*
William Wellington Alexander,	*Binghamton, N. Y.*	16 O. H.
Francis Asbury Bagnall,	*Middletown.*	*106 High St.*
§ Charles Elmore Barto,	*Northport, N. Y.*	21 N. C.
Edward Arthur Bawden,	*Minersville, Pa.*	54 N. C.
Robert James Beach,	*Bridgeport.*	X. Ψ. *House.*
Jesse Leander Beers,	*Easton.*	21 N. C.
Richard Ellsworth Bell,	*New York, N. Y.*	*102 College St.*
John Andrew Bergström,	*Middletown.*	Δ. K. E. *House.*
† Herbert Linwood Campbell,	*Westfield, Mass.*	Δ. K. E. *House.*
§ Charles Manning Child,	*Higganum.*	X. Ψ. *House.*
Gideon Wales Coons,	*Catskill, N. Y.*	27 N. C.
Richard Watson Cooper,	*Moorton, Del.*	54 N. C.
§ Lewis Nelson Crane,	*Berlin.*	48 N. C.
Edwin Parker Currier,	*Bakersfield, Vt.*	11 N. C.
§ Frank Burnett Dains,	*Cazenovia, N. Y.*	*112 High St.*
Charles Fellows Eggleston,	*Hempstead, N. Y.*	29 N. C.
Charles Jessup Foster,	*Middletown.*	*90 Court St.*
Fred Ernest Fuller,	*West Auburn, Pa.*	14 N. C.
Edgar Smith Furnel,	*Wilton, Me.*	39 N. C.
Frederick Augustus Gascoigne,	*Brooklyn, N. Y.*	*106 High St.*
Frederic Samuel Goodrich,	*Waterbury.*	60 N. C.
Winfield Scott Goss,	*St. Johnsbury Center, Vt.*	•13 N. C.
† James Chandler Graham,	*Brooklyn, N. Y.*	37 N. C.
Robert Paul Green,	*Hackensack, N. J.*	13 N. C.
Frederic Watson Hannan,	*Rock Hill, N. Y.*	19 N. C.
John Morgan Harris,	*Bennington, Vt.*	62 N. C.
† Samuel Boyer Harvey,	*Chaplin.*	X. Ψ. *House.*
John Robert Henshaw,	*Suffield.*	X. Ψ. *House.*
† James Alonzo Hulse,	*Amityville, N. Y.*	X. Ψ. *House.*
William Andrew Montgomery,	*Worcester, Mass.*	A. Δ. Φ. *House.*
Walter Everard Morse,	*Livermore Falls, Me.*	62 N. C.
Leonard Colburn Murdock,	*Toddsville, N. Y.*	A O. H.
§ Eugene Allen Noble,	*Brooklyn, N. Y.*	A. Δ. Φ. *House.*
§ George Howard Opdyke,	*Jersey City, N. J.*	19 N. C.
Wendell Phillips Parker,	*North Gorham, Me.*	39 N. C.

NAMES.	RESIDENCES.	ROOMS.
George Luther Peck,	*Harford, N. Y.*	A O. H.
† Carl Noyes Quimby,	*Whitefield, N. H.*	48 N. C.
Willis Fenton Roe,	*Marcellus, N. Y.*	27 N. C.
§ Frederic Howard Scott,	*Westfield, Mass.*	*106 High St.*
Charles Scott Smith,	*St. Paul, Minn.*	A. Δ. Φ. *House.*
Edwin Sloan Tasker,	*Manchester, N. H.*	*106 High St.*
Wilson Wallace Thompson,	*New Britain.*	*5 Bailey Av.*
§ John Jackson Tinker,	*Suffield.*	*112 High St.*
Lewis Gardner Westgate,	*Middletown.*	60 N. C.
John Quinby Wood,	*Brockton, Mass.*	44 N. C.
§ Anna Harris Andrews,	*Hartford.*	*15 Grand St.*
§ Martha Josephine Beach,	*Middletown.*	*104 William St.*
Mary Romer Beach,	*Middletown.*	*1 High St.*
§ Clara Maria Coggshall,	*West Brookfield, Mass.*	*135 High St.*
§ Lillie Belle Conn,	*Fitchburg, Mass.*	*135 High St.*
Hester Laurence Raymond,	*North Lyme.*	*135 High St.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
§ Cornelius Abrams,	*Lawrence, N. Y.*	59 N. C.
Lloyd Hawley Andrews,	*Bethel.*	*112 High St.*
§ Edwin Daniel Arnold,	*Middletown.*	*South Farms.*
† Lucien Samuel Bayliss,	*New York, N. Y.*	47 N. C.
George Hamilton Bickford,	*Barton, Vt.*	6 N. C.
† Charles Ridgway Blundell,	*Paterson, N. J.*	*99 Court St.*
† Arthur Peyton Bryant,	*Moultonboro, N. H.*	43 N. C.
David Jacobus Carlough,	*Paterson, N. J.*	*99 Court St.*
§ Henry Archer Cleaver,	*Chesapeake City, Md.*	*11 Wyllys Av.*
Charles Woods Coulston,	*Philadelphia, Pa.*	10 S. C.
§ George Albert Croxford,	*East Dixmont, Me.*	*7 Wyllys Av.*
† Waters Burrows Day,	*Morristown, N. J.*	B O. H.

NAMES.	RESIDENCES.	ROOMS.
George Perry Dunham,	*Norway, Me.*	52 N. C.
§ Herbert Scott Eaton,	*Barton Landing, Vt.*	6 N. C.
Frank Prescott Fogg,	*Readfield, Me.*	52 N. C.
Cyrus David Foss, Jr.,	*Minneapolis, Minn.*	*1 Wyllys Av.*
George Seymour Godard,	*North Granby.*	60 N. C.
† Albert Elmer Hancock,	*Philadelphia, Pa.*	10 S. C.
William Ray Heath, Jr.,	*Bucksport, Me.*	X. Ψ. *House.*
§ Ralph Barnes Hibbard,	*New Britain.*	*112 High St.*
§ Samuel Pierson Hildreth,	*Bridgehampton, N. Y.*	*114 High St.*
Arthur John Holden,	*Palmer, Mass.*	*112 High St.*
† Philip Hallock Hopkins,	*Miller's Place, N. Y.*	59 N. C.
§ John Evan Jenkins,	*Shamokin, Pa.*	16 O. H.
Frederick Allen King,	*Thompsonville.*	*75 High St.*
Linnaeus Edford La Fétra,	*Washington, D. C.*	*11 Wyllys Av.*
§ Ludwig August Lange,	*Scranton, Pa.*	35 N. C.
§ Frank Bowers Littell,	*Scranton, Pa.*	35 N. C.
James Henry McDonald,	*Hope, R. I.*	Δ. K. E. *House.*
Henry Isaiah McMahon,	*Lima, N. Y.*	51 N. C.
Ernest Loren Meritt,	*West Eaton, N. Y.*	16 N. C.
John Derward Miner,	*East Greenwich, R. I.*	51 N. C.
John George Mitchell,	*Willimantic.*	45 N. C.
George Mooney,	*New York, N. Y.*	B O. H.
Ellis Walker Moore,	*St. Johnsbury, Vt.*	*112 High St.*
† Everett Hiram Osborn,	*Centre Moriches, N. Y.*	*114 High St.*
Charles Harrison Page, Jr.,	*N. Scituate, R. I.*	25 N. C.
George Lincoln Plimpton,	*Brimfield, Mass.*	45 N. C.
Isaac Merwin Rayner,	*Greenport, N. Y.*	*8 Wyllys Av.*
George Henry Rogers,	*S. Manchester.*	25 N. C.
† Charles Wilfred Savage,	*East Berlin.*	X. Ψ. *House.*
† Henry Bloodgood Slayback,	*New York, N. Y.*	12 S. C.
Arthur Willis Smith,	*Fall River, Mass.*	43 N. C.
Harry Monmouth Smith,	*Middletown.*	*22 Pearl St.*
Clinton Chandler Stevens,	*Readfield, Me.*	61 N. C.
Edgar Jerome Thayer,	*East Blackstone, Mass.*	*8 Wyllys Av.*
§ John Urban Wagner,	*Scranton, Pa.*	28 N. C.
Tibbitts Walker,	*Saybrook, O.*	49 N. C.
§ Oliver Cromwell Webster,	*Liberty, N. Y.*	17 N. C.
Oliver Loveland Welch,	*New York, N. Y.*	12 S. C.

NAMES.	RESIDENCES.	ROOMS.
Leon Irving Wood,	*Waterbury.*	60 N. C.
† Charles Bellamy Young,	*Middletown.*	*67 South Main St.*
§ Belle Evangeline Graves,	*Stratford.*	*135 High St.*
Ellen Mary Brainerd Peck,	*Clinton.*	*135 High St.*

SPECIAL STUDENT.

NAME.	RESIDENCE.	ROOM.
William Howard Treat,	*New York, N. Y.*	*112 High St.*

SUMMARY.

GRADUATE STUDENTS,	3
SENIORS,	37
JUNIORS,	43
SOPHOMORES,	52
FRESHMEN,	54
SPECIAL STUDENTS,	1
TOTAL,	190

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, and named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course the study of Latin and Greek forms a large part of the required work of the first two years. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above Courses, all of the studies of the first year are required, except that the Classical and Latin-Scientific students have the option between French and German. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies.

In the choice of these electives, the student is advised to exercise prudence and deliberation, and especially to regulate his choice so that his electives will together form a harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

The allotment of the subjects of study in the several Courses is set forth in the following table, in which the numbers in the columns headed "Required" show approximately what percentage of the whole work of the respective Courses consists of required studies in the several departments named; while the numbers in the columns headed "Elective" show the amount of elective work offered in the respective departments, computed on the same scale.

DISTRIBUTION OF REQUIRED AND ELECTIVE STUDIES IN THE CLASSICAL, LATIN-SCIENTIFIC, AND SCIENTIFIC COURSES.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Ancient Languages,	22	20	7	12	—	—
Modern Languages,	4*	16	4*	13	13	4
Rhetoric and English Literature,	4	11	4	12	4	12
Logic, Psychology, and Ethics,	8	8	8	8	8	8
History and Political and Social Science,	5	8	5	8	5	8
Mathematics,	9	8	9	8	2	9
Physics and Astronomy,	8	20	8	21	8	21
Chemistry,	3	12	4	12	4	17
Biology,	3	15	6	12	6	13
Geology, Mineralogy, and Physical Geography,	4	10	5	8	5	8
Percentage of work required of each student in four years,	70	—	60	—	55	—
Percentage of elective work,	—	30	—	40	—	45

*Option is allowed between French and German. If these should therefore be counted as elective, the percentage of studies required in the Classical and in the Latin-Scientific Course would become 66 and 56, respectively.

The distribution of the required and elective work in each of the four years is shown in the following table:

PERCENTAGE OF REQUIRED AND ELECTIVE WORK FOR EACH YEAR IN EACH COURSE.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Freshman Year,	84	16*	83	17*	100	0
Sophomore "	84	16	53	47	69	31
Junior "	53	47	53	47	17	83
Senior "	28	72	28	72	28	72

*Option between French and German, one of which is required.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

POST-GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue post-graduate courses of study in any of the departments.

TERMS OF ADMISSION.

CLASSICAL COURSE.—Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN.—Candidates are examined in either of the following courses, according to their option:—

I. Cæsar,—Gallic War, books I., II.; Vergil,—Æneid, books I. to VI. inclusive, Eclogues, Georgics (or two thousand lines of Ovid); Cicero,—eight orations; Latin Grammar, including Prosody; translation into Latin of simple English sentences and easy narratives based on the prose authors read.

Candidates are also allowed at the option of the examiner to substitute translation at sight from the authors specified in Course II. for some of the passages set from the authors required in Course I., and it is especially urged that systematic practice in accurate sight-reading be made a part of the preparatory training from the very first.

II. Translation at sight of passages from Cæsar, Cicero's Orations, Vergil, Ovid's Metamorphoses, Sallust, and Cornelius Nepos; Latin Grammar and Composition as in Course I.

The Roman system of pronunciation is exclusively used in all the Latin work of the College course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in

father, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *aye*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit;* *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th*, as *c*, *p*, and *t* with the aspiration following, as in *haphazard* and *boathook;* other consonants as in English.

GREEK.—Candidates are examined in either of the following courses according to their option:—

I. Four books of Xenophon's Anabasis; three books of Homer's Iliad; Hadley-Allen's or Goodwin's Greek Grammar; simple sentences in Prose Composition.

Candidates in Course I. may substitute the translation of a prose passage at sight as the equivalent of one of the passages set for the examination in the Anabasis. It is very desirable that all candidates shall have had training in translation at sight.

II. Translation at sight of average passages from Xenophon and from the Iliad (the candidate being supplied with a vocabulary of the less usual words). Prose Composition and Grammar as in Course I.

HISTORY AND GEOGRAPHY.—History of Rome to the death of Marcus Aurelius; History of Greece, to the capture of Corinth; Ancient Geography. The amount of historical knowledge required for this examination may be obtained from the following books:—Cox's or Smith's Smaller History of Greece; Leighton's History of Rome (of which the introduction, and chaps. i., ii., iv., xxix., xlvii., lv., lvi., lxv.–lxix., may be omitted.) Tozer's Primer of Ancient Geography is recommended as the basis for instruction in Ancient Geography, and familiarity with map-drawing is especially desirable.

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures. 2. Algebra, through Quadratic Equations,—including Arithmetical and Geometrical Progressions, and the use of the Binomal Formula for positive integral exponents,—so much, for example, as is contained in the first seven books of Newcomb's Algebra for Colleges, or in the first eighteen chapters of Loomis's Treatise on Algebra. 3. Plane Geometry,—so much as is contained in the first five books of Chauvenet's or Wentworth's Geometry, or the first six books of Newcomb's Geometry.

ENGLISH.—1. Each candidate will be required to write a short English essay upon a subject announced at the time of the examination.

This essay will be expected to show a general familiarity with the works mentioned below, and will be examined with especial attention to accuracy of grammar, spelling, and punctuation. One hour will be given to this exercise. In 1888, the subject of this essay will be taken from one of the following works, candidates being required, however, to be prepared on all of them:—Shakspere's Julius Cæsar and Twelfth Night; Johnson's Lives of Addison and Pope; Thackeray's English Humorists; Dobson's Eighteenth Century Essays; Pope's Rape of the Lock and Essay on Criticism; Miss Austen's Pride and Prejudice; Irving's Bracebridge Hall; Macaulay's Lays of Ancient Rome.

In 1889, it will be taken from the following:—Shakspere's Julius Cæsar and As You Like It; Johnson's Lives of Swift and Gray; Thackeray's English Humorists; Swift's Gulliver's Travels; Gray's Elegy; Miss Austen's Pride and Prejudice; Scott's Marmion and Rob Roy.

In 1890, it will be taken from the following:—Shakspere's Julius Cæsar and Midsummer Night's Dream; Macaulay's Life of Johnson and Essay on Boswell's Life of Johnson; Carlyle's Essays on Boswell's Life of Johnson; Johnson's Vanity of Human Wishes; Goldsmith's Vicar of Wakefield and Deserted Village; Dobson's Eighteenth Century Essays; Scott's Quentin Durward; Macaulay's Lays of Ancient Rome.

In 1891, it will be taken from the following:—Shakspere's Julius Cæsar and Merchant of Venice; Johnson's Lives of Milton and Dryden; Macaulay's Essays on Milton and Dryden; Milton's Paradise Lost, Books I. and II.; Dryden's Alexander's Feast; Scott's Quentin Durward; Irving's Bracebridge Hall.

2. Each candidate will be required to criticise specimens of English given him at the time of the examination. Half an hour will be given to this exercise.

LATIN-SCIENTIFIC COURSE. — Candidates for the Latin-Scientific Course will be examined in all of the above subjects except Greek. *They will also be examined in French or German as each candidate may elect. Such a knowledge of the language will be required as will enable the candidate to read easy passages at sight.*

SCIENTIFIC COURSE.—Candidates for the Scientific Course will be examined in the following books and subjects:—

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures. 2. Algebra, through the Theory of Equa-

tions,—so much as is contained in Newcomb's Algebra for Colleges, or Loomis's Treatise on Algebra. 3. Plane and Solid Geometry,—so much as is contained in Chauvenet's Geometry to Appendix I., or in Newcomb's Geometry, omitting the chapters on the Conic Sections. 4. Plane and Spherical Trigonometry, with the use of Logarithmic and Trigonometric Tables,—so much as is contained in Wheeler's Elements of Trigonometry.

ENGLISH.—Same requirements as for Classical Course.

FRENCH OR GERMAN.—Same requirements as for Latin-Scientific Course.

SPECIAL COURSES.—Special Students, not candidates for a degree, may be admitted upon passing such examination as the Faculty shall in each case prescribe.

No one can be admitted to the Freshman Class under the age of fifteen years, or to an advanced standing without a corresponding increase of age.

All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

A student who has accomplished half or more of the preparatory course, may be examined on that part, and receive credit therefor. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

The regular examination for admission is held on the Friday and Saturday of Commencement Week. All candidates must be present at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the Fall Term.

Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided that they make application to the President before June 1st. The time of these examinations will be Thursday and Friday of Commencement Week. But, if no applications are received before June 1st, these examinations will not be held.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

LATIN.

MR. TRUE; MR. WILLIAMS.

I. Livy,—Books 21 and 22, with parallel readings from Polybius in translation. *Three hours a week during first half-year.*

Horace,—Epodes, Satires, Odes, and Epistles. *Three hours a week during second half-year.*

Exercises in Sight Translation and Prose Composition throughout the year.

Ihne's Early Rome, with courses of collateral readings on special topics. *Weekly throughout the year.*

Course I. is required of Classical and Latin-Scientific Freshmen.

II. Plautus,—Captivi; Terence,—Andria. Readings from other plays of these authors. *Four hours a fortnight during first half-year.*

Cicero,—Selected Letters, with frequent sight translations. *Four hours a fortnight during second half-year.*

Illustrated lectures on the Drama and Private Life of the Romans. *Fortnightly during the year.*

Course II. is required of Classical Sophomores, and elective for Latin-Scientific Sophomores.

III. Tacitus,—Histories. *Five hours a fortnight during first half-year.*

Catullus, Propertius, and Tibullus,—Selections. *Four hours a fortnight during second half-year.*

Elementary lectures on Historical Grammar, with readings from the Institutes of Quintilian. *Fortnightly during second half-year.*

Course III. is elective for all who have taken Courses I. and II.

IV. Lucretius. *Five hours a fortnight during first half-year.*

Juvenal,—Selected Satires. *Five hours a fortnight during second half-year.*

Practice in the interpretation of selected portions of the authors read. Lectures on Roman Literature and Epicurean Philosophy.

Course IV. is elective for all who have taken Course III.

V. 1886–87. History of Classical Studies, Methods of Study and Teaching, Choice of Books, etc.

1887–88. Vergil,—His Life and Times; Criticism of his Poetry; Exposition of Selected Passages; Methods of Study and Teaching.

These courses of lectures are suited to the needs of those intending to teach the classics or to pursue extended courses of study in philology. They are open to members of the three upper classes, as an extra.

GREEK.

PROFESSOR VAN BENSCHOTEN; MR. TAYLOR.

I. Herodotus. Special attention to Morphology and Etymology; Greek History. *Four hours a week during fall term.*

Thucydides; Syntax, with Composition. *Four hours a week during winter term.*

Homer; Prosody; Lectures on Greek Language and Life in Homeric literature. *Nine hours a fortnight during spring term.*

Throughout the year considerable time is given to sight-reading, and students are encouraged to read large amounts with as little use of lexicon and grammar as possible. In recitation, accuracy of translation and good English are required.

Course I. is required of Classical Freshmen.

II. Aeschines and Demosthenes on the Crown. Lectures on the Public Life of the Greeks. The reading required includes Butcher's Demosthenes, Jebb's Greek Orators, and Jebb's Primer of Greek Literature. *Five hours a fortnight during fall term.*

Aeschylus,—Prometheus Bound; Sophocles,—Antigone. Lectures on Greek Drama, with illustrations. The reading includes Jebb's Primer of Greek Literature, Jevon's History of Greek Literature, and Mahaffy's History of Greek Literature. *Five times a fortnight during winter term.*

Plato's Euthyphro, Apologia, Crito, Phaedo. Lectures on Greek Philosophy. Rapid translation, with attention to the style and thought of the author. The reading includes introductory chapters of Grote's

Plato, and Zeller's Outlines of Greek Philosophy. *Five hours a fortnight during spring term.*

During Sophomore year the cultivation of the "sense of style" and of the ability to appreciate beauty in literature is especially aimed at.

Course II. is required of Classical Sophomores.

III. Xenophon's Memorabilia, or one of Plato's Dialogues; Greek Comedy; Pausanias and Strabo. Lectures on Topography, Geography, and Art. Philology,—Baur's Philological Introduction to Greek and Latin. This course is intended for those who desire a wider acquaintance with Greek literature and a more technical knowledge of Grammar and the details of interpretation. *Five hours a fortnight throughout the year.*

Course III. is elective for all who have taken Courses I. and II.

IV. Greek Testament; Greek Fathers. This course provides an introduction to the critical study of New Testament Greek. Especial attention is given to methods of interpretation and to the history of the text. *Five hours a fortnight throughout the year.*

Course IV. is elective for all who have taken Courses I. and II.

V. Greek Lyric Poetry, including Pindar; Aristotle's Ethics or Poetics; Lectures on Philology and Greek Drama. *Five hours a fortnight throughout the year.*

Course V. is elective for all who have taken Course III.

MODERN LANGUAGES.

PROFESSOR PRENTICE.

FRENCH.

I. Whitney's French Grammar, Part I. Readings in Voltaire's Louis XIV., edition of Masson and Prothero, or Crane's Le Romantisme Francais. In connection with the readings, parts of Harrison's French Syntax are assigned the class for study. Various exercises based on the readings are given in each recitation. *Five times a fortnight.*

II. Readings from O'Connor's Choix de Contes Contemporains; Molière's Le Misanthrope, Brette's edition; Corneille's Horace; D'Harleville's Le Vieux Célibataire, the Pitt Press edition; Sainte Beuve's M. Daru, the Pitt Press edition.

Sight-readings from Choix de Contes Contemporains, the College Series of French Plays, or Knapp's French Readings.

The sections of Harrison's French Syntax that treat of negation, the uses and succession of the moods, and prosody, are studied in connection with the readings. *Five times a fortnight.*

GERMAN.

I. Whitney's German Grammar, commencing with the twenty lessons outlined in the preface. Whitney's German Reader. With the readings are assigned daily a part of the passages for translation into German of the second and third series in the supplement to the Grammar. The sentences are put upon the black-board for criticism and correction. After the first examination, special attention is given to gaining a mastery of the irregular verbs and the rules for the gender of the nouns. *Five times a fortnight.*

II. Selections from Hart's Goethe's Prosa; Schiller's Wilhelm Tell, Buchheim's edition; Lessing's Minna Von Barnhelm, Whitney's edition; Goethe's Iphigenie auf Tauris, Carter's edition. Systematic sight-readings from Stern's Select German Comedies. Grammatical work is connected with the course of reading, special attention being paid to the sections of the Grammar which treat of the construction and order of sentences and the law of Progression of Mutes. *Five times a fortnight.*

III. Schiller's Wallenstein Trilogy; Lessing's Nathan der Weise; Goethe's Faust. Each play is studied so as to connect it with the general literary movements of its time, as well as with the personal career of its author. Lectures are given on the personal and literary history of every author read. An attempt is made to appreciate the value of the most enlightened criticism to which these dramas have been subjected. *Five times a fortnight.*

This course is given in alternate years.

Of the courses outlined above, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Candidates for the Latin-Scientific and Scientific Courses are examined at entrance to test their ability to read easy sight passages in French or German as they may elect. Students in the Latin-Scientific Course are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, at their choice. Students in the Scientific Course must,

during the first two years, take either I. French, II. French, and II. German, or I. German, II. German, and II. French, according as they were examined at entrance in German or French. Aside from these restrictions, each course in either language is elective for those who have previously taken the preceding course or courses in the same language.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR WINCHESTER; MR. TAYLOR AND MR. WILLIAMS.

I. ENGLISH LANGUAGE. Trench's English Past and Present, with a short course of lectures upon the rise and early history of the language. *Three times a fortnight during the first half-year.*

ELEMENTARY RHETORIC, with frequent practical exercises. *Three times a fortnight during the second half-year.*

Course I. is required of all Freshmen.

II. RHETORIC. Genung's Practical Rhetoric. The members of the class are required to write—in addition to their regular essays—occasional exercises illustrating and applying the principles laid down in the text-book; and they read, for criticism and discussion in the class-room, two or three specimens of the best modern English prose. The writings selected for such reading and criticism this year are Macaulay's Life of Johnson and Carlyle's Essay on Johnson. *Five times a fortnight during the first half-year.*

Course II. is required of all Sophomores.

III. ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's Primer of English Literature, with lectures. *Three times a fortnight throughout the year.*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspere's Hamlet; selections from Pope's Satires. *Once a week throughout the year.*

3. A brief course of collateral reading. Every member of the class must take one of the courses named below. Schedules of the courses with lists of books on biography and criticism may be had in the library. Examinations on this reading are held during the first week in December, the first week in March, and the last week in May. The courses for the present year are as follows:—

(1.) Marlowe's Faustus and Green's Friar Bacon; Shakspere's Henry IV., As You Like It, Antony and Cleopatra, A Winter's Tale, and ten sonnets; Bacon's Essays,—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost, Book I., Samson Agonistes.

(2.) Johnson's Lives of Milton, Dryden, Swift, Addison, Pope, and Gray; Milton's Comus and Paradise Lost, Book I.; Dryden's Absalom and Achitophel; Swift's Tale of a Tub, Journal to Stella, letters I.–XII.; Selected Essays of Addison, Winchester's edition; Pope's Rape of the Lock; Gray's Elegy.

(3.) Thackeray's Lectures on Swift, Addison, Steele, Prior, Gay, Pope, Sterne, and Goldsmith; Swift's Tale of a Tub, Battle of the Books, Journal to Stella, letters I.–XII.; Selected Essays of Addison, Winchester's edition; Selected Essays of Steele, Dobson's edition; Goldsmith's Deserted Village, Retaliation, and Vicar of Wakefield; Leslie Stephen's Johnson, chaps. iii. iv.

(4.) Leslie Stephen's Johnson, chaps. iii. iv.; Macaulay's Life of Johnson; Johnson's Rasselas and Vanity of Human Wishes; Cowper's Task, Book I.; Burke's two American Speeches, Reflections on the Revolution in France,—the first half, Letter to a Noble Lord; Burns, —selected poems.

(5.) Burns,—selections; Wordsworth,—selected poems in Arnold's edition; Shelley,—selected poems in Stopford Brooke's edition; Keats' Hyperion, Odes, and Sonnets; Byron,—one canto of Childe Harold; Lamb,—selections from the essays of Elia; De Quincey's Recollections of Lamb and Wordsworth, Suspiria de Profundis; Shairp's Essay on Wordsworth.

Course III. is elective for those who have taken Courses I. and II.

IV. ENGLISH LITERATURE from 1789 to 1830. Lectures and Discussions. Members of the class will read the principal writings of Burke, Burns, Wordsworth, Lamb, Coleridge, De Quincey, Byron, Shelley, and Keats; and will prepare abstracts and analyses of what they read for discussion before the class. *Five times a fortnight throughout the year.*

Course IV. is open only to those who have taken Course III.

V. ENGLISH COMPOSITION. Every member of the Sophomore and Junior classes is required to write nine essays in the year; every Senior must write an argument for debate before his class, and either four essays or two public orations. The Sophomores meet nine times a year for general class discussion and criticism of their themes; and every member of the Junior class meets the Professor privately, once a term, for individual criticism upon his work.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. The Freshman, Sophomore, and Junior Classes are required to present declamations, mostly of their own selection, fortnightly.

The classes are divided into sections of ten or twelve each, and the exercise for each section occupies one hour. Criticism is made upon personal defects, and suggestions are given with regard to vocal culture and proper courses of practice.

During the Sophomore and Junior years occasional exercises are required to be taken from some particular author.

The work in this department is largely of a practical character, and aims to preserve and develop in each student, as far as possible, his best personal characteristics as a speaker.

II. THEORY OF ELOCUTION. The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given, and the text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation to be delivered before the class for criticism. The purpose of the work of this term is to render each student competent to judge correctly of his own expression of thought and feeling, and to intelligently criticise others. *Twice a week throughout the year.*

Course II. is elective for Juniors.

HISTORY AND POLITICAL ECONOMY.

MR. HARRIS.

I. HISTORY OF ENGLAND to the end of the eighteenth century. Thompson's History of England and Green's Short History of the English People. Each member of the class is required to pursue a

course of collateral reading on the history of a short period, and to present before the class an essay based upon his reading. *Five times a fortnight throughout the year.*

Course I. is elective for Juniors.

II. POLITICAL HISTORY OF THE UNITED STATES from the close of the Revolution to the beginning of the Civil War. A systematic history of the whole period is given by lectures, accompanied by numerous required references to volumes of the American Statesmen Series, to standard histories, to the works of Hamilton, Madison, Webster, etc. Lodge's Hamilton, Lodge's Webster, and Schurz's Clay are read entire. Each member of the class is also required to pursue a course of collateral reading, on which he may be required to read a paper to the class. *Five times a fortnight throughout the year.*

Course II. is elective for Seniors.

III. CONSTITUTION OF THE UNITED STATES. Cooley's Principles of Constitutional Law. The Constitution is committed to memory. The text-book is supplemented by running comments on the Constitution as committed, and by lectures on the following general topics:—The government of the colonies, and the attempts at union before the adoption of the Constitution; the formation and adoption of the Constitution; the history of the Constitution; the departments of the government, its officers and their duties; State and municipal governments; the "unwritten" constitution; the constitutions of other nations, especially that of England. *Five times a fortnight during second half-year.*

Course III. is required of Juniors.

IV. POLITICAL ECONOMY. Fawcett's Manual of Political Economy. Lectures are delivered on special topics, prominence being given to those subjects which are of most interest in the United States at the present time.

Subjects are assigned to the class, on which they are required to write short papers. *Four times a week during first half-year.*

Course IV. is required of Seniors.

PHILOSOPHY.

MR. SNEATH.

I. LOGIC. Jevons' Elements of Logic. The instruction in this course is confined to the simple elements of the science. After a thorough consideration of terms and propositions, a rigid drill in the syllogism is given. Written recitations are sometimes required,

especially when the moods and figures of the syllogism and the reduction of syllogisms are the subjects under consideration. *Five times a fortnight during second half-year.*

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology. After the relation of Psychology to the other sciences has been set forth, the various phenomena of consciousness and their laws are considered. A thorough examination of the "physical basis of the mind" is made, the nervous conditions of mental phenomena being carefully studied. The methods and researches of Physiological Psychology are fully discussed. *Five times a fortnight during first half-year.*

Course II. is required of Juniors.

III. THEISM. Bowne's Philosophy of Theism, Flint's Theism and Anti-Theistic Theories. After the religious, moral, and scientific issues depending upon the validity of the claims of Theism have been pointed out, the class proceeds to the consideration of the grounds for a belief in the existence of a personal God. By candid examination an endeavor is made to find out whether Theism better than any other theory accounts for the phenomena of the world and life. The first half of the year is devoted to a consideration of the Theistic argument. The last half of the year is devoted to an examination of the various anti-Theistic theories, special attention being given to Materialism and Pantheism. Members of the class are selected to prepare lectures on some of the theories considered, to be read in the class. A course of collateral reading is required of each member of the class. *Five times a fortnight throughout the year.*

Course III. is elective for Juniors.

IV. HISTORY OF PHILOSOPHY. Schwegler's History of Philosophy. The work in this course consists of a survey of the development of philosophic thought, from its beginnings down to recent times, examining the content, internal connection, and historical position of the various systems of philosophy. A more extended exposition and criticism of leading systems than the text-book affords is given by the instructor in supplementary lectures. In the History of Modern Philosophy, special attention is given to the Kantian Philosophy. A course of collateral reading is assigned, and each student is required to prepare a paper giving an exposition and criticism of one of the representative systems of Philosophy. The work of the year closes with several lectures on the tendencies of philosophic thought to-day. *Five times a fortnight throughout the year.*

Course IV. is elective for Seniors.

ETHICS AND CHRISTIAN EVIDENCES.

PROFESSOR RICE; MR. SNEATH.*

I. EVIDENCES OF CHRISTIANITY. Fisher's Grounds of Theistic and Christian Belief. The lessons assigned are of somewhat unusual length, so that the time allotted to the study suffices for the reading of nearly the whole of the book. The recitation hours are occupied chiefly in general discussion. In the examination, ability to give an intelligent discussion of the various lines of argument is required, rather than minute familiarity with the text-book. *Four times a week during six weeks of the winter term.*

Course I. is required of Seniors. It is conducted this year by Professor Rice.

II. MORAL SCIENCE. Porter's Elements of Moral Science. The first half of the time given to this study is devoted to a consideration of the theory of duty, in which the psychological basis of morals is examined, and the philosophical conceptions and principles involved in the science are carefully considered and justified. A brief exposition of the various theories of the origin and nature of moral relations is given, the social and evolution theories receiving special attention.

The last half of the time is devoted to the study of practical morals. Free discussion on the part of members of the class is encouraged. *Four times a week during the last eleven weeks of the year.*

Course II. is required of Seniors. It is conducted this year by Mr. Sneath.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. JAMES; MR. VAN VLECK.

I. SOLID GEOMETRY. Chauvenet's Elementary Geometry. *Four times a week during the first third of the year.*

ALGEBRA. Hall and Knight's Higher Algebra. *Nine times a fortnight during the second third of the year.*

TRIGONOMETRY, with applications to Surveying and Navigation. Newcomb's Trigonometry; Newcomb's Logarithmic Tables. *Four times a week during the last third of the year.*

Course I. is required of Classical and Latin-Scientific Freshmen.

II. ANALYTICAL GEOMETRY of two dimensions. Bowser's Analytic Geometry. *Three times a week during the fall term.*

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* Instruction in this department is usually given by the President.

Course II. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

III. ANALYTICAL GEOMETRY,—an additional course, preceded by a short course in determinants. Peck's Determinants; C. Smith's Conic Sections; C. Smith's Solid Geometry. *Five times a fortnight during the first half-year.*

DIFFERENTIAL CALCULUS. Byerly's Differential Calculus. *Five times a fortnight during the second half-year.*

Course III. is elective for Classical and Latin-Scientific Sophomores, and for Scientific Freshmen.

IV. DIFFERENTIAL AND INTEGRAL CALCULUS. Byerly's Treatise on Differential and Integral Calculus. *Five times a fortnight.*

Course IV. is elective for those who have taken Courses I. and II. It will not be repeated hereafter, but will be replaced by one open only to those who shall have taken Course III.

V. ASTRONOMY,—a general course, requiring only elementary mathematics. Newcomb and Holden's Astronomy. *Twice a week throughout the year for Seniors, three times a week during the winter and spring terms for Juniors.*

Course V. is required this year of all Seniors and Juniors. It will hereafter be required of Juniors only.

VI. PRACTICAL ASTRONOMY. Chauvenet's Spherical and Practical Astronomy; American Ephemeris and Nautical Almanac. *Five times a fortnight, with practical exercises in the Observatory.*

Course VI. is open to those Classical and Latin-Scientific Seniors, and Scientific Juniors, who have taken Course III. or Course IV.

In addition to the foregoing, the Professor of the department will assist candidates for honors and graduate students in their mathematical reading, meeting them at such times as may be determined by mutual agreement. The subject chosen for the current year is Quaternions.

PHYSICS.

PROFESSOR CRAWFORD.

I. ELEMENTARY PHYSICS. Dana's Elementary Mechanics and Stewart's Elementary Physics,—the time given to the former being mostly spent in recitations; that to the latter in lectures with experiments. *Three times a week during the fall and spring terms, five times a fortnight during the winter term.*

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. A. SOUND AND LIGHT. Tyndall's Sound; Lectures on Vibratory Motion; Glazebrook's Optics. *Five times a fortnight.*

B. ELECTRICITY AND HEAT. S. P. Thompson's Electricity and Magnetism, Part Second; Deschanel's Heat. *Five times a fortnight.*

II. A. and II. B. are given in alternate years, with some variation in methods and text-books from year to year. II. B. is given this year. In these courses numerous experiments are shown, with opportunity for discussion and for examination of instruments on the part of members of the class.

Course II. is elective for those who have taken Course I.

III. PRACTICAL PHYSICS. The work of this course is quite variable, being adapted in large measure to the needs and tastes of the individual student. In some cases the experiments assigned are mostly of a simple qualitative nature, and cover a wide range of subjects. In other cases the student proceeds almost at once to experiments involving accurate measurements, like those described in Kohlrausch's Physical Measurements, or Glazebrook and Shaw's Practical Physics. *Those who take this course must work at least two and a half hours consecutively in the laboratory five times a fortnight.*

Course III. is open this year, as previously, only to those who take or have taken II. A. or II. B. It will hereafter be open to those who shall have taken Course I.

IV. PRACTICAL PHYSICS. A continuation of the Junior laboratory course, requiring the same amount of time.

Course IV. is elective for those who have taken Course III.

CHEMISTRY.

PROFESSOR ATWATER; MR. CLARK.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. The exercises consist of lectures and laboratory practice, with occasional recitations, chiefly written. Eliot and Storer's Elementary Manual and Remsen's Introduction to Chemistry have been used, as giving very convenient descriptions of experiments. Each student performs the larger number of the experiments given in such

a book, and numerous others. *Seven times a fortnight during the winter term, three times a week during the spring term.*

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. QUALITATIVE ANALYSIS. It is assumed that Course I. will give sufficient drill in the principles of the science and in laboratory practice to enable the student to work understandingly in qualitative analysis, to which the first year's elective work in the laboratory is, in most cases, devoted. Each exercise occupies at least two and a half hours. Opportunity for spending a longer time in the laboratory is offered to all and utilized by a considerable number of the students. The usual course of preliminary study of reactions and subsequent analysis of complex substances is pursued. Comparatively little use is made of tables or text-books of qualitative analysis except such as the students prepare for themselves on the basis of their own observations, with the aid, of course, of oral explanations and lectures. *Five times a fortnight.*

Course II. is elective for those who have taken Course I.

III. QUANTITATIVE ANALYSIS. This is usually taken up at the beginning of the second year's work in the laboratory. After a series of general exercises for practice, such as are laid down in Fresenius' Quantitative Analysis, the students are encouraged to enter upon special work, such as seems desirable in each case. Those who propose to study medicine, for instance, engage in the preparation and determination of the proximate compounds of the body, in urine analysis, or in other work, qualitative as well as quantitative, in physiological chemistry. *Required time, the same as for Course II.*

Course III. is elective for those who have taken Course II.

IV. ADVANCED CHEMISTRY, ORGANIC, THEORETICAL, AND PHYSIOLOGICAL. The exercises in this course consist of laboratory work, lectures, and recitations, and include also readings and essays upon special topics. The class meet the instructor in a less formal manner than is usual in other subjects. The course is somewhat flexible, and the attempt is made to adapt it to the special wants of the class. It is usually taken after Course II. and in connection with Course III. The following special topics are assigned for the current college year:—1. Constitution of compounds. 2. Synthesis of organic compounds. 3. Albuminoids. 4. Ptomaïnes. 5. Chemistry of Nutrition. *Five times a fortnight.*

Course IV. is elective for those who have taken Course I.

V. For students in the Scientific Course who desire to pursue the study of Chemistry beyond the limits of Courses I.–IV., further work is provided.

Candidates for special honors in Chemistry pursue special lines of study and laboratory work cognate with those in Course IV.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. Leconte's Compend of Geology is used as a text-book, and is supplemented by lectures. The problems of dynamical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. Illustrations of geological principles are taken, so far as practicable, from localities in the immediate vicinity of Middletown; and occasional excursions are arranged to give a knowledge of local geology, and to teach the student how to observe geological phenomena in general. *Three times a week during the winter and spring terms.*

Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. ADVANCED GEOLOGY. It is desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy, especially the two former. The first and the second term are occupied with informal and conversational recitations in Leconte's Elements of Geology, five times a fortnight. This part of the course is intended to give the student a more complete and comprehensive knowledge of the general principles of the science than can be gained in the required course. The subject of Paleontology, especially, is treated much more fully than is possible in the required course. Reference is made continually, in the illustration of the various subjects under discussion, to the reports of geological surveys and other original memoirs. Frequent excursions afford opportunity for practice in observation in the field. The latter part of the year each student is expected to take some special topic for investigation, in the field, the laboratory, or the library, according to the nature of the subject. The class meets occasionally to hear reports of progress from the various members in regard to the topics which each

has been studying; and the instructor meets each student as often as may be necessary for direction and assistance in his work.

Course II. is elective for those who have taken course I.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, with Geikie's Elementary Lessons as text-book. *Five times a fortnight during the fall term.*

Course III. is required of Latin-Scientific and Scientific Freshmen, and elective for Classical Sophomores.

IV. MINERALOGY. This course comprises three parts, each occupying approximately one term:—1, a course of lectures on crystallography and physical mineralogy, with practical exercises in the study of crystallographic models and of crystals; 2, a course of laboratory work in determinative mineralogy; 3, a course of lectures on descriptive mineralogy. The lectures on descriptive mineralogy are given in the Museum, so that the characteristics of each important mineral can be illustrated by a full suite of specimens. The works of Dana and Brush are used for reference. *Five times a fortnight.*

Course IV. is elective for Classical and Latin-Scientific Juniors, and for Scientific Sophomores.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. The object of the course is to give the student a general knowledge of the functions of the various organs of the body in their normal condition. The origin, distribution, and final transformations, of the energy of the body are treated in accordance with the doctrine of the conservation of energy. Enough anatomy is given to render the physiological discussions intelligible, and enough of hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures. *Six times a week during eleven weeks of the fall term.*

Course I. is required of Classical and Latin-Scientific Juniors, and Scientific Sophomores.

II. BOTANY. Bastin's Elements of Botany, accompanied by lectures upon subjects not treated in the text-book. Both lessons and lectures are illustrated, as far as possible, by specimens, especial attention being given to microscopic structure. As soon as the season

allows, in the spring, the class-room exercises are replaced by laboratory work, and the rest of the time until Commencement is spent in practical laboratory work, including analysis and description of plants, and the study of structural botany. *Five times a fortnight during the winter and spring terms.*

Course II. is required of Latin-Scientific and Scientific Freshmen, and elective for Classical Sophomores.

III. ZOOLOGY. Lectures and recitations. This course is designed to give the student a knowledge of the phenomena connected with life in general. Typical examples illustrating the various groups of the animal kingdom are described, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Five times a fortnight.*

Course III. is elective for Classical Juniors, and for Latin-Scientific and Scientific Sophomores.

IV. PRACTICAL BIOLOGY. Those who elect this course spend two and a half consecutive hours in the laboratory five times a fortnight, and get practical knowledge of the use of the microscope and dissecting instruments. Those taking the study for only one year have a course planned according to the need and desires of the individual. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mold, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, various principles of biology, comparative anatomy, and embryology.

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY. The second year is devoted to experiments in physiology, and to the study of histology, bacteriology, embryology, and mammalian anatomy. For part of the course, outside reading may be substituted upon such subjects as seem most desirable for each student. *Time required, same as in IV.*

Course V. is elective for those who have taken Course IV.

Courses IV. and V. are open to only a limited number of students.

Tabular Statement of the Courses of Study.

The Arabic numerals indicate approximately the whole number of exercises for the year in the respective studies. Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the Courses of Instruction in that department.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	150	I. Mathematics,	150
I. Greek,	150	I. English,	50

ELECTIVE.

(One to be chosen.)

I. French,	90	I. German,	90

SOPHOMORE YEAR.

REQUIRED.

II. Latin,	90	Analytical Geometry,	40
II. Greek,	90	I. Physics,	100
Rhetoric,	45	I. Chemistry,	75
Logic,	45		

ELECTIVE.

(One to be chosen.)

III. Mathematics,	90	Botany,	55
II. French,	90	Physical Geography,	35
II. German,	90		

JUNIOR YEAR.

REQUIRED.

Astronomy,	70	Psychology,	45
I. Geology,	80	Constitution of U. S.,	45
Physiology,	65		

ELECTIVE.

(Three to be chosen.)

IV. Mathematics,	90	Elocution,	75
II. Physics,	90	I. History,	90
III. Physics (Practical),	90	Theism,	90
II. Chemistry (Practical),	90	III. Latin,	90
IV. Biology (Practical),	90	III. Greek (Classical),	90
Zoology,	90	IV. Greek (Biblical),	90
Mineralogy,	90	III. German,	90
III. English (Literature),	90		

SENIOR YEAR.

REQUIRED.

Ethics, Christian Evidences, Political Economy,	50
	25
	55

ELECTIVE.

(Four to be chosen.)

Practical Astronomy,	85	History of Philosophy,	85
IV. Physics (Practical),	85	II. History,	85
III. Chemistry (Practical),	85	IV. English (Literature),	85
IV. Chemistry,	85	IV. Latin,	85
V. Biology (Practical),	85	V. Greek,	85
II. Geology,	85		

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	150	Botany, Physical Geography,	55
I. Mathematics,	150		35
I. English,	50		

ELECTIVE.

(One to be chosen.)

I. French,	90	I. German,	90
II. French,	90	II. German,	90

SOPHOMORE YEAR.

REQUIRED.

Analytical Geometry,	40	Rhetoric,	45
I. Physics,	100	Logic,	45
I. Chemistry,	75		

ELECTIVE.

(Three to be chosen.)

III. Mathematics,	90	Zoology,	90
II. Latin,	90		

NOTE.—In choosing elective studies, the student is at liberty to select not only from the list of such studies assigned to his own class, but also from those assigned to lower classes.

JUNIOR YEAR.

Same as in the Classical Course, with the omission of the electives in Greek and Zoology.

SENIOR YEAR.

Same as in the Classical Course, with the omission of the elective in Greek.

SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

Analytical Geometry,	40	I. English,	50
I. Physics,	100	Botany,	55
I. Chemistry,	75	Physical Geography,	35
I. German,	90	or I. French,	90
II. French,	90	II. German,	90

Students must take the first two, or the second two, of the above courses in Modern Languages, according as they have passed in the French or the German required for admission. In the former case they must take II. German, in the latter case, II. French, in Sophomore year.

NOTE.—Those who desire to elect III. Mathematics may do so by postponing one of the courses of Freshman year.

SOPHOMORE YEAR.

REQUIRED.

Astronomy, I. Geology, Physiology,	70 80 65	Rhetoric, Logic,	45 45

ELECTIVE.

(Two to be chosen, besides either II. French or II. German.)

III. Mathematics,	90	II. Chemistry (Practical),	90
IV. Mathematics,	90	Mineralogy,	90
II. Physics,	90	Zoology,	90
III. Physics (Practical),	90	III. German,	90

NOTE.—The Course IV. Mathematics is open only to those who have taken III. Mathematics in Freshman year.

JUNIOR YEAR.

REQUIRED.

Psychology, Constitution of U. S.,	45 45

ELECTIVE.

(Five to be chosen.)

IV. Physics (Practical),	90	II. Geology,	85
III. Chemistry (Practical),	90	III. English (Literature),	90
IV. Chemistry,	85	Elocution,	75
IV. Biology (Practical),	90	I. History,	90
Practical Astronomy,	85	Theism,	90

SENIOR YEAR.

REQUIRED.

Same as in Classical Course.

ELECTIVE.

(Four to be chosen.)

V. Biology (Practical),	85	II. History,	85
V. Chemistry,	85	IV. English (Literature),	85
History of Philosophy,	85		

NOTE.—A brace enclosing the names of two or more studies indicates that those studies jointly extend through the year, the time being divided between them.

The preceding tables present the course of study that will be followed hereafter. The course for the current year is transitional between this and the course heretofore prevailing.

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on the next page. In that table each study is assigned to that year to which it belongs in the Classical Course. Exercises named without any sign or initial are daily exercises. Exercises which occur on alternate days are denoted by the signs * and †. Of these half-studies, those which are marked with the same sign occur on the same days; those marked with different signs occur on alternate days. It will be observed that recitations in half-studies assigned to the same hour will interfere with each other only when they are marked with the same sign. Letters following the names of studies indicate the days of the week on which certain exercises occur. Letters in connection with the sign * or † indicate that an exercise occurs on the day mentioned in those weeks only in which other exercises marked with the same sign occur on that day. The sign ‡ indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Arabic numerals following the names of certain studies indicate the sections into which the classes are divided. Roman numerals are used to distinguish different courses in the same department, having the same significance here as in the above statements of the Courses of Instruction.

The Chemical Laboratory is open for students in Practical Chemistry, on the days denoted by a *, from 2 P. M. till 6 P. M.; the Biological Laboratory and the Physical Laboratory are open for students in Practical Biology and Practical Physics respectively, on the days denoted by a †, from 2 P. M. till 5 P. M. Each student electing either of these studies is required to spend at least two and a half hours consecutively in the Laboratory.

PROGRAMME OF RECITATIONS.

SENIORS.	JUNIORS.	SOPHOMORES.	FRESHMEN.
8. Political Economy. Ethics. Evidences. S.	Physiology. I. Geology. Astronomy. S.	II. Mathematics. I. Physics. I. Chemistry. S.	I. English. F.
IV. Chemistry.†	IV. Greek (Biblical).*	II. French.*	I. English. (First and Second Terms) Th.†
IV. Latin.†	Mineralogy.*	Botany.†	I. Greek. 1. S.
	Theism.†	III. Mathematics.*	I. Latin. 2. S.
9. III. German.†	III. Greek (Classical).*	II. German.*	
IV. English (Literature). 2.†	Mineralogy.*	Physical Geography. Botany. †	
II. History.*	II. Physics.*		
	I. History.†		
	Psychology. 2.*		
	IV. Mathematics. 2.*		
10. V. Greek.*	Physiology. I. Geology. 1. Astronomy.	II. Greek.†	I. Latin. 1. Tu., W., Th., F.
IV. English (Literature). 1.†		Composition.* ‡	I. Latin. 1. (First Term) M.†
History of Philosophy.*		Declamation. 1. W.*	I. Mathematics. 2. M., Tu., W., F.
			I. Mathematics. 2. (Second Term) Th.†
11. II. Geology.†	III. English (Literature).†	II. Latin. 2.†	I. French.*
Practical Astronomy.†	Zoology.*	Logic. 2.*	I. German.†
	IV. Mathematics. 1.†	Declamation. 2. Th.†	Declamation. 2. W.†
	Declamation. 1. Th.*		
	Declamation. 4. W.*		
12. Astronomy. M., T., W. Th.†	Psychology. 1. Constitution. *	II. Mathematics. I. Physics. I. Chemistry.	I. Greek. 1. M., T., Th.
Polit. Economy. Ethics. Evidences. M., Tu., W., Th.*	Declamation. 2. W.†		I. Greek. 1. (Third Term) W.†
	Declamation. 3. Th.†		I. Latin. 2. Tu., W., Th.
			I. Latin. 2. (First Term) M.†
Polit. Economy. Ethics. Evidences. Forensics.‡ F.			
2.	I. Geology. 2.	Declamation. 3. W.*	I. English. (Third Term) Th.†
		Declamation. 4. Th.†	Declamation. 1. Th.*
			Declamation. 3. Tu.*
			Declamation. 4. W.†
3.	Elocution. Tu., Th.	Rhetoric. Logic. 1. *	I. Mathematics. 1. M., Tu., W., F.
	III. Latin.*	II. Latin. 1.†	I. Mathematics. 1. (Second Term) Th.†
			I. Greek. 2. M., Tu., Th., F.
			I. Greek. 2. (Third Term) W.†

GENERAL REGULATIONS.

SELECTION OF STUDIES.

In making a selection among the elective studies, the following rules are to be regarded:—

A student may take elective studies assigned to a class below his own, as well as those assigned to his own class; but not those assigned to a class above his own, except by special permission of the Faculty. The election must in all cases be made for the whole year, no changes from one department to another being permitted during the year. Studies must be selected whose hours of recitation do not conflict with each other, as indicated by the tabular statement on page 45. The student's selection must in all cases be subject to the approval of the Faculty.

In order to avoid misunderstanding, each student is required to present to the Secretary of the Faculty, on the first day of the Fall Term, a list of the studies which he desires to take.

EXAMINATIONS.

Examinations, either oral or written, are held in all the studies of the course. The oral examinations are held near the close of the college year, and are conducted before Examining Committees appointed by the Executive Committee of the Trustees. The written examinations are held whenever the respective studies are finished; but the papers are reserved for inspection by the Examining Committees. No student who has been absent from fifteen per cent. or more of the required exercises in any study, can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences are not due to culpable negligence. No student who has been absent from ten per cent. or more of the required exercises in any study can

be admitted to the regular examination in that study without first passing a preliminary examination.

Special examinations will be held during the third term for those who have been absent, by permission, from the regular examinations which have occurred in the previous part of the year.

A special examination will be held, commencing on the Tuesday before the beginning of the first term, for those who shall have failed to pass any of the examinations of the preceding year. Students who fail to pass at this examination will be required to attend recitations with the next class in the studies in which they are deficient, and to be examined with the class at the regular time. Those, however, whose failure to pass shall have been due to necessary absence from examinations, may be excused by the Faculty from the requirement of attendance upon recitations, provided their scholarship shall be deemed sufficiently good.

A student desiring to take more than the prescribed quota of elective studies may present himself at the special examination, at the beginning of the first term, to be examined in advance in any required study, and, on showing evidence of a high degree of proficiency, he may be excused from recitation in that study.

PUBLIC WORSHIP.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city. Each student is allowed to elect what church he will attend, and is required to report such election to the Registrar at the beginning of each college year.

LEAVE OF ABSENCE.

No student is allowed to be absent from college without permission from the President.

The time appropriated to vacation is believed to be ample for the purpose of relaxation from study; and, in view of the unfavorable effect of all absences, either at the commencement or at any other period of the term, upon the standing and proficiency of the student, the Faculty earnestly request that parents and guardians will in no way encourage, or even sanction, such absences, without very urgent reasons.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:

Tuition, - - - - - - - - - -	$75 00
Room Rent, from $12.00 to $36.00; average, -	26 00
General Repairs and Incidental Expenses, - -	21 00
Use of Library and Reading Rooms, - - -	6 00
Total, - - - - - - - - - -	$128 00

Students in Practical Chemistry are charged for the use of apparatus, for chemicals, and for incidentals. This charge averages about eleven dollars a term.

A fee of five dollars a term is charged to each student in Practical Physics.

Ladies residing in the Ladies' Dormitory are charged at the rate of five dollars a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Dormitory.

A diploma fee of five dollars is charged to each student at graduation.

Persons holding *free*, *personal*, or *transferable* scholarships are exempt from charges for tuition.

The college bills are payable at the commencement of each term; to any bill not paid on presentation after one week's notice, five per cent. will be added. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town; but the places in which they room or board must in all cases be subject to the approval

of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Gentlemen rooming in the college buildings provide for themselves furniture, fuel, lights, and books.

Board may be obtained in private families at prices varying from $3.00 to $5.00 a week. A large majority of the students board in clubs, at prices ranging from $2.50 to $3.50 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

MATERIAL EQUIPMENT.

BUILDINGS AND GROUNDS.

The principal buildings of the College are the following:—

NORTH COLLEGE and SOUTH COLLEGE. These were erected in 1824–5, as the property of the American Literary, Scientific, and Military Academy, but were subsequently transferred to Wesleyan University, and were the only buildings belonging to the institution at the time of its incorporation in 1831. North College is the main dormitory, having accommodations for about eighty students. South College contains four lecture-rooms, and a few apartments for students.

MEMORIAL CHAPEL. This was erected in memory of those alumni and students who fell in the war for the Union. It was completed in 1871. It contains, on the upper floor, an audience room with seating capacity of about six hundred, and, on the lower floor, a smaller chapel for daily prayers, a lecture-room, and the room of the Young Men's Christian Association.

RICH HALL, or THE LIBRARY. This was the gift of Isaac Rich. It was completed in 1868. It is constructed on the alcove plan, and has shelf-room for about 80,000 volumes.

JUDD HALL, or the Orange Judd Hall of Natural Sciences. This was the gift of Orange Judd, an alumnus of the class of 1847. It was completed in 1871. It contains, on the ground floor, the chemical lecture-room and laboratory, and, on the second floor, the biological laboratory and two lecture-rooms, while the upper two floors are occupied by the museum. In the basement are rooms used by the museum and chemical laboratory.

The five buildings named above are all built of brown sandstone, and stand in the order named in a row running from north to south, the campus lying to the east of them.

OBSERVATORY HALL. This is a brick building, standing on a slight elevation back of Judd Hall. In the tower on its front side is

mounted the equatorial telescope. This building also contains the physical lecture-room and laboratory, as well as rooms for about twenty students.

TRANSIT HOUSE. This is distant a few steps from Observatory Hall, and contains the transit and prime vertical instruments, with associated apparatus.

LADIES' DORMITORY. Since 1883, the house just north of the campus, which was formerly the residence of the President, has been used as a Ladies' Dormitory. It is under the charge of an efficient matron. A study-room is provided here for lady students who reside elsewhere in the city.

GYMNASIUM. This is a frame building, standing a short distance back of Memorial Chapel. It is furnished with the commoner forms of gymnastic apparatus.

The grounds lying west of the college buildings have within a few years been greatly improved, and afford ample room for all forms of athletic sports.

LIBRARY AND READING ROOM.

The Library in Rich Hall contains about thirty-six thousand volumes. The library hall is open every week day of term time, except Saturdays, from 10 A. M. to 1 P. M., and from 2 to 4 P. M.; on Saturdays, from 9 A. M. to 1 P. M. No student may take from the Library more than two books at a time, without special permission; books are loaned for two weeks, with the privilege of renewal, in the case of most books, for two weeks longer.

Books reserved by request of officers of instruction as collateral reading for students in their classes are shelved in a separate reading-room, can be taken out only at the close of library hours, and must be returned upon the opening of the library.

The books are catalogued on cards, on the so-called dictionary plan. Direct access to the shelves is allowed to all, in order that they may secure the benefit derived from selecting and examining the books themselves. Assistance is freely given by the Library staff when called for; but it is expected that students will consult for themselves the catalogues, indexes, and other helps, and thus learn the use of literary tools.

Visitors are always welcome, and at liberty to consult the Library.

About $1,100 is spent annually for the increase of the Library.

During the year the Library has received an important addition,

consisting of about one thousand valuable works, from the library of the late Rev. D. D. Whedon, D. D., a gift from his son, Rev. J. S. Whedon, M. A.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. The second, or Library reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

The Observatory is used for purposes of instruction, and is well equipped therefor. Members of the Senior Class have frequent opportunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical Astronomy are instructed in the theory and use of all the instruments of the Observatory.

The principal instruments are an equatorial of 12 inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, by Fauth & Co.; a prime vertical instrument of the same size and by the same makers; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE CHEMICAL LABORATORY occupies four rooms on the first floor of Judd Hall, with store-rooms in the basement. A large working-room furnishes places for over thirty students, and two smaller laboratories and a balance-room afford conveniences for the work of instructors and a number of advanced students.

THE BIOLOGICAL LABORATORY consists of two rooms in Judd Hall, and is capable of accommodating about fifteen students. It is equipped for the advantageous prosecution of elementary biological work, being supplied with microscopes, micrometers, water baths, warm chambers, Du Bois Reymond's induction coil, dissecting apparatus, etc., together with abundance of material for anatomical and histological study and dissection. The Laboratory has also the use of the large museum collection for comparison and direct study.

THE PHYSICAL LABORATORY is situated in Observatory Hall. It consists of one large room on the upper floor, and two smaller rooms, provided with piers, on the ground floor. It can accommodate eight or ten students. It is supplied with apparatus for the illustration of most of the important principles of Physics, the following being some of the principal pieces used: Cathetometer, by Bamberg; balance, by Bunge; balance, by Becker Bros.; small goniometer, seven-inch circle, by Elliott Bros.; large goniometer, by Hilger, with 18-inch circle (graduated by Troughton & Simms); two of Rutherford's diffraction gratings; diffraction bench, by Duboscq; Jolly's air thermometer; Calorimeter, by Edelmann; most of the important pieces of Koenig's acoustic apparatus; apparatus for electrical measurements, mostly of Elliott Bros.' make, including Thompson's mirror galvanometer, Thomson's quadrant and portable electrometers, sine, tangent, and astatic galvanometers, reading telescope, conductivity apparatus, standard condenser, resistance boxes, Wheatstone's bridge, thermopiles, etc.

The Laboratory is connected with the observatory clocks, and has the use of the chronograph and spectroscopes belonging to the astronomical department.

MUSEUM.

The Museum of Natural History occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with especial reference to educational purposes, and are freely accessible to students.

The nucleus of the Departments of Zoölogy and Botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions, in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many speci-

mens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort Collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique.

The following is an approximate statement of the number of specimens in the various departments of the Museum:

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	150
Fishes,	2,100
Insects—pinned and alcoholic,	3,750
nests, borings, &c.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Coelentera,	1,500
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,500
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	10,000
Fossils—Paleozoic,	2,650
Mesozoic,	800
Cenozoic,	1,000

The Museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A number of Scholarships exempting the holders from the charge for Tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:

THE JOHN EVANS SCHOLARSHIP.

This Scholarship has been founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is yearly to be given to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. Only such as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates for this Scholarship.

THE SQUIRE SCHOLARSHIP.

This Scholarship has been founded by Watson C. Squire, B. A. The income of it, amounting to one hundred and fifty dollars, will be awarded to that member of the Senior class who shall pass the best examination in Greek, provided he pursue a course of study in Middletown, under the direction of the Faculty, for at least one year after graduation.

THE SENEY SCHOLARSHIPS.

These have been established by George I. Seney, M. A. They are forty-eight in number, and are divided among the classes equally. They will be awarded on the basis of the merit-roll, under such conditions as the founder of the Scholarships has prescribed. Their precise value for any year will depend on the income of the Scholarship Fund. For the present year they will range from one hundred to one hundred and fifty-five dollars. It is stipulated by the founder of the Scholarships that no student shall be considered a candidate for any one of them who was not in attendance upon college exercises throughout the year for which the Scholarship is awarded, nor shall any Scholarship,

though awarded, be paid to one who is absent from college during the year, or during any considerable part of the year, in which it is payable. No one who is regularly employed as a preacher or teacher shall, during the year in which he is so occupied, be considered a candidate for any of these Scholarships. Nor shall any student be considered as a candidate for them during any year in which he has been the subject of serious college discipline.

The Scholarships for the three lower classes will be awarded as soon after the beginning of each academic year as the record of standing for the previous year can be prepared; and will be paid in three installments:—the first, immediately upon the assignment of the Scholarships; the second, at the beginning of the Winter Term; the third, at the beginning of the Spring Term.

The Senior Scholarships will be awarded two weeks before Commencement, and be paid at that time in one payment.

The corporation of the college assumes responsibility for the payment of the Scholarships only to the measure of the income of the Scholarship Fund.

The Seney Scholarships have been awarded, on the basis of the merit-roll of the year 1886–87, to the following persons:

Class of 1887.—Edward Everett Cornwall, Edward Summerfield Ninde, Edward Evans Pixley, Ralph Hayward Pomeroy, William Trafton Randall, Herbert Dwight Rockwell, Joseph Chapin Rockwell, James Madison Stevens, Albert Welcome Thayer, Jennie Van Vleck, Herbert Welch, Robert Louis Zink.

Class of 1888.—John Law Bridge, William Evans Bruner, William Morton Cassidy, Roland Wilkins Guss, Frederic Hobart Lawrence Hammond, Fred Alexander Hillery, Alice May Hotchkiss, Robert Seney Ingraham, Arthur Wilson James, Kate Bertha Mitchell, William Barnard Smith, Marcus White.

Class of 1889.—Dudley Chase Abbott, Henry Havens Chatfield, Fred Morgan Davenport, Bernard Marcus Davis, Willie Irving Ford, Mary Graham, Herbert Augustus Hill, George Frederick Kettell, Samuel Gail Landon, Harry Summerfield Noe, Arthur W. Partch, William Emory Smyser.

Class of 1890.—Francis Asbury Bagnall, Edward Arthur Bawden, Martha Josephine Beach, John Andrew Bergström, Clara Maria Coggshall, Lillie Belle Conn, Frederick Samuel Goodrich, John Morgan Harris, Walter Everard Morse, Hester Laurence Raymond, Edwin Sloan Tasker, Lewis Gardner Westgate.

COLLEGE HONORS.

PRIZES.

The following prizes will be awarded during the present year:

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior class whose oration at Commencement shall be deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of Rhetoric on or before Tuesday, June 19th.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior class who shall excel in English Composition. The subject for the essay of 1888 is, "Calhoun's Argument for Secession." The subject for the essay of 1889 is, "The Ethical and Religious Conceptions of George Eliot." The essays must be left with the Professor of Rhetoric on or before the first Monday of the spring term.

The Harrington Prize will be awarded to that member of the Senior class who shall excel in History. The subjects for the examination of 1888 are:—The Studies of the Department for the Senior year.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior class who shall write the best essay on Political Economy. The essays must be left with the Instructor in the Department on or before the first Monday in May.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded to that member of the Senior, Junior, or Sophomore class who shall excel in Natural Science. The examination for this prize this year will be in Geology.

The G. Brown Goode Prize, the gift of G. Brown Goode, M. A., will be given for the best Original Investigation in the Department of Natural History.

The Romig Prize, the gift of John F. Romig, Esq., and the George E. Reed Prize, the gift of Rev. George E. Reed, D. D., will be awarded as a first and second prize, respectively, to the two members

of the Junior class who shall present the best orations at the annual Junior Exhibition. In the decision of these prizes, both the composition and the delivery of the orations will be considered.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior class who shall excel in English Literature.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior class who shall excel in Logic.

A Prize will be awarded to that member of the Junior class who shall excel in debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be given to that member of the Junior class who shall excel in Metaphysics.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded as a second prize for excellence in Elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore class who shall excel in the Greek language.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore class who shall excel in the Latin language.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman class who shall excel in Mathematics.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman class who shall excel in Declamation.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in either of the college classes, who shall write the best English poem. The poem must be left with the Professor of Rhetoric before the Senior Examination.

The designation of the classes to which the prizes are offered is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold either of these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:

The Rich Prize, to Edward Summerfield Ninde and Herbert Dwight Rockwell.

The Olin Prize, to Herbert Welch.

The Harrington Prize, to Jacob Augustus Cole.

The Wise Prize, to Herbert Welch.

The Joseph D. Weeks Prize, to Frank Henry Richmond.

The Peirce Prize, to Fred Morgan Davenport.

The G. Brown Goode Prize, to Herbert Lowell Rich.

The Romig Prize, to Roland Wilkins Guss.

The George E. Reed Prize, to Harry Harvey Beattys.

The Camp Prize, to Fred Alexander Hillery.

The Weeks Prize, to Herbert Welch.

The Prize for Debate, to Thomas Dudley Wells.

The David A. Walkley Prize, to Frederick William Lange.

The Parker Prize, to Henry Frank Mandeville.

The Scranton Prize, to George Mead Hughes.

The Spinney Prize, to Fred Morgan Davenport.

The Phi Beta Kappa Prize, to Fred Morgan Davenport.

The Rice Prize, to Herbert Augustus Hill.

The Sherman Prize, to Edward Arthur Bawden.

The Hibbard Prize, to Richard Ellsworth Bell.

The J. D. Miller Prize,* to Edgar Smith Furnel.

The Taylor Prize, to Herbert Welch.

The Ayres Prize for the present year has been awarded to Linnæus Edford La Fétra.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition and at Commencement are selected according to the standing in Composition and Declamation

* To that member of the Freshman Class writing the best English Essay. This prize is not given this year.

subsequent to the Freshman year. The number of speakers at each of these public exercises is limited to ten. The speakers appointed last year were:

FOR THE JUNIOR EXHIBITION.—Harry Harvey Beattys, William Morton Cassidy, William Clark Gordon, Roland Wilkins Guss, Fred Alexander Hillery, Joseph Ward Lewis, Thomas Dudley Wells, Marcus White.

FOR COMMENCEMENT.—Walter Russell Breed, Jacob Augustus Cole, Edward Summerfield Ninde, Frank Henry Richmond, Joseph Chapin Rockwell, Hebert Dwight Rockwell, Albert Welcome Thayer, Odell Seymour Smith, Herbert Welch.

HONORS IN SCHOLARSHIP.

1. HONORS IN GENERAL SCHOLARSHIP.—There are two grades of honor conferred at graduation, based upon the general scholarship of the student throughout his whole course. Eighty-eight per cent. of the maximum standing entitles a student to the first grade of honor, and eighty-three per cent. to the second grade. *

2. HONORS IN SPECIAL DEPARTMENTS.—Special honors are also given at graduation in each of the following departments:—

Latin; Greek; Modern Languages; Rhetoric and English Literature; Logic, Psychology and Ethics; Political and Social Science, including History; Mathematics; Physics; Chemistry; Biology; Geology.

The candidate for special honors must apply to the officer or officers of the department in which he proposes to take honors, not later than the first Monday in May of the Junior Year. He must pass, at the regular or special examinations, in all the studies (both required and elective) in the department in which he proposes to take honors, and must maintain in that department an average standing not lower than eighty per cent. of the maximum. He must, in addition, pursue such a course of collateral reading or investigation as shall be prescribed by the officer or officers in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer or officers of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

*The scale of marking in practical use is such that the best students in any department receive about ninety-two per cent. of the absolute maximum.

The honors, both general and special, are stated in the diploma; and the names of students who take honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:

GENERAL SCHOLARSHIP.—*First Grade.* Jacob Augustus Cole, Joseph Chapin Rockwell, Herbert Welch.

Second Grade. Herbert Edgar Cobb, Edward Everett Cornwall, Katie Griffing Pike, Edward Evans Pixley, Ralph Hayward Pomeroy, William Trafton Randall, Frank Henry Richmond, Herbert Dwight Rockwell, Frank Elwood Sanford, James Madison Stevens, Albert Welcome Thayer, Jennie Van Vleck, Robert Louis Zink.

SPECIAL DEPARTMENTS.—*Greek.*—1. The Meno and the Sophist of Plato, and the Panegyricus of Isocrates. Thesis.—Ancient and Modern Theories of Education.

To Albert Welcome Thayer.

2. The Choephorae of Aeschylus, the Electra of Sophocles, the Electra of Euripides. Thesis.—These three writers compared in their dramatic treatment of the three Electras.

To Henry Buckley Coons, George Francis Flynn.

Mathematics.—Theoretical Astronomy, with computation of the orbit of Finlay's comet.

To Herbert Edgar Cobb, Edward Evans Pixley, James Madison Stevens.

Philosophy.—A study of Lotze's Metaphysic.

To Edward Summerfield Ninde.

English Literature.—1. The Life and Work of Shakspere, with some study of the Contemporary Drama.

(a) With Essay on The Ethical Quality of Shakspere's Works.

To Ralph Hayward Pomeroy, Herbert Welch.

(b) With Essay on Woman in Shakspere's Plays.

To Albert Welcome Thayer.

2. The Writings of Edmund Burke. With Essay on The Justice of Burke's Attitude towards the French Revolution.

To Frank Henry Richmond.

Modern Languages.—About's Le Roi des Montagnes—eight chapters, Moliére's L'Avare, Sainte Beuve's Monsieur Daru, Hugo's Le Dernier Jour d'un Condamnè, Albert's La Littérature Française au dix-septième Siècle.

Van Laun's History of French Literature, Guizot's Life of Corneille; with Essay on Corneille.

To George Francis Flynn.

Political and Social Science. — 1. English History. — Reign of George III.

With Essay:—The First Church of Middletown, an investigation in local history.

To Elmer Frederic Newell.

2. American History.—The Administration of John Adams.

(a) With Essay:—The Henry George Movement in New York.

To Frank Henry Richmond.

(b) With Essay:—Wesleyan in the Rebellion.

To Wesley Ellsworth Woodruff.

(c) With Essay:—An account of the life of Commodore McDonough, with especial reference to his residence in Middletown.

To Robert Louis Zink.

Chemistry.—1. Atomic Theory, Hydrocarbons. Thesis on organic compounds, and constitution of compounds in the human body.

To Harry Breneman Bruner.

2. Chemistry of Nutrition. Examination of students' dietaries, and thesis on same.

To Calvin Spencer Videon.

Biology.—Foster's Physiology.

To Edward Everett Cornwall.

DEGREES.

The following degrees are conferred by the University, in course:

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

MASTER OF ARTS.—This degree may be conferred on any Bachelor of Arts, of three years' standing or more, who has been engaged since

graduation in some literary occupation. Persons who intend to take this degree must apply to the President as early as the Monday preceding Commencement, and advance the usual fee.

At the last Commencement degrees were conferred as follows:

THE DEGREE OF B. A. was conferred on:—Buell Owen Campbell, Dwight Friend Carroll, Herbert Edgar Cobb, Jacob Augustus Cole, Henry Buckley Coons, Russell Hubert Croxford, George Francis Flynn, Edmund Richard Foley, Robert Lewis Gilbert, George Arthur Ingalls, Howard Osman Lantz, Elmer Frederic Newell, Edward Summerfield Ninde, Harvey Hallet Paine, Katie Griffing Pike, Edward Evans Pixley, Ralph Hayward Pomeroy, Frank Henry Richmond, Herbert Dwight Rockwell, Joseph Chapin Rockwell, Benjamin Franklin Sharpe, James Madison Stevens, Carlos Hotchkiss Storrs, Albert Welcome Thayer, Jennie Van Vleck, Calvin Spencer Videon, Herbert Welch, George William Wood, Wesley Ellsworth Woodruff, Robert Louis Zink.

THE DEGREE OF PH. B. was conferred on:—Harry Breneman Bruner, Edward Everett Cornwall, Edwin Fish, Harold Charles Hutchison, Jessie Innes Inglis, Frank Elwood Sanford, Odell Seymour Smith, David Holden Stafford, Samuel Newton Taylor.

THE DEGREE OF B. S. was conferred on:—Walter Russell Breed, William Trafton Randall, Millard Fillmore Steelman.

THE DEGREE OF M. A. was conferred on:—Joseph Barzillia Ackley, Charles Wesley Chadwick, Howard Abbott Clifford, Jacob Francis Cooper, George Herrick Dains, Stanley Woodworth Davenport, David George Downey, William Rogers Evans, Charles Henry Gardiner, Caroline Matilda Hills, Francis Clasen Hoyt, Lorenzo Nickerson Johnson, George Thomas Judd, George Mason La Monte, Charles Alvin Littlefield, William Armstrong Richard, Cary A. Roe, Herbert Edwin Russell, Frank Taylor Smith, Albert Radden Sweetser, Franklin Henry Taylor, Arthur Titcomb, John Andrew Tuck, Edward Burr Van Vleck, Albert Perry Walker,—of the class of '84; Charles Henry Baker, of the class of '81.

THE DEGREE OF M. A., HONORIS CAUSA, was conferred on:—Rev. T. Tapley Short, Governor of Wesley College, Taunton, England; Rev. Stephen Olin Benton; Rev. Arthur N. Flack, B. A.

THE DEGREE OF D. D. was conferred on:—Rev. Henry Lummis, M. A., Professor in Lawrence University; Rev. William H. Hughes, M. A.; Rev. Edgar Moncena Smith, M. A.

THE DEGREE OF LL. D. was conferred on:—Henry O. Marcy, A. M., M. D.; Hon. Phineas C. Lounsbury, Governor of the State of Connecticut.

OBITUARY RECORD.—Obituary notices of deceased graduates of the University are published annually. All persons who can supply information appropriate to the future editions of this record, are urgently requested to communicate the same to Professor C. T. Winchester.

ALUMNI RECORD. Through the liberality of Orange Judd, Esq., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their present residences and such other information with reference to them as the most thorough search can obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Librarian, Mr. L. O. Kuhns. The price of the Record, when sent by mail, is two dollars and twenty-five cents.

Information in regard to changes of residence or address of Alumni or to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with the Librarian, Mr. L. O. Kuhns.

CALENDAR.

1887.

Sept. 15, Thursday—First Term commenced.
Dec. 21, Wednesday—First Term will close.

VACATION OF TWO WEEKS.

1888.

Jan. 5, Thursday—Second Term will commence.
Mar. 27, Tuesday—Junior Exhibition.
Mar. 28, Wednesday—Second Term will close.

VACATION OF ONE WEEK.

April 5, Thursday—Third Term will commence.
June 6, Wednesday—Senior Examination will commence.
June 6, Wednesday—Prize Debate and Declamation.
June 19, Tuesday—Annual Examination will commence.
June 22, Friday—Prize Declamation.
June 24, Sunday Morning—Baccalaureate Sermon.
June 24, Sunday Evening—University Sermon.
June 25, Monday—Class Day.
June 26, Tuesday—Anniversaries of the Literary Societies.
June 26, Tuesday—Meeting of the Board of Trustees, at 9 o'clock A. M.
June 26, Tuesday—Business Meeting and Anniversary of the Alumni Association.
June 27, Wednesday—Reunion of Classes of 1838, '63, '73, '78, '81, and '85.
June 28, The last Thursday of June—COMMENCEMENT.
June 29, Friday—Examination of candidates for admission will commence.

VACATION OF ELEVEN WEEKS.

Sept. 11, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 12, Wednesday—Examination of candidates for admission will commence.
Sept. 13, Thursday—First Term will commence.
Dec. 19, Wednesday—First Term will close.

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ANNUAL CATALOGUE

—OF—

WESLEYAN UNIVERSITY.

1888-89.

MIDDLETOWN, CONN.:
PELTON & KING, PRINTERS AND BOOKBINDERS.
1888.

CATALOGUE

Compliments of

J. M. Van Cleve

WESLEYAN UNIVERSITY,

1888-89.

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JANUARY

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T	1	8	15	22	29	
W	2	9	16	23	30	
T	3	10	17	24	31	
F	4	11	18	25	X	
S	5	12	19	26	X	

FEBRUARY

S	–	3	10	17	24	
M	–	4	11	18	25	
T	–	5	12	19	26	
W	–	6	13	20	27	
T	–	7	14	21	28	
F	1	8	15	22	X	
S	2	9	16	23	X	

MARCH

S	–	3	10	17	24	31
M	–	4	11	18	25	X
T	–	5	12	19	26	X
W	–	6	13	20	27	X
T	–	7	14	21	28	X
F	1	8	15	22	29	X
S	2	9	16	23	30	X

APRIL

S	–	7	14	21	28	
M	1	8	15	22	29	
T	2	9	16	23	30	
W	3	10	17	24	X	
T	4	11	18	25	X	
F	5	12	19	26	X	
S	6	13	20	27	X	

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—OF—

WESLEYAN UNIVERSITY.

1888-89.

MIDDLETOWN, CONN.:
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1888.

CATALOGUE

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WESLEYAN UNIVERSITY,

1888-89.

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M. DCCC. LXXXVIII.

CATALOGUE

—OF—

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NOTE.—Trustees whose names are marked with a § were elected by the alumni; those whose names are marked with a † were elected by the Patronizing Conferences; all others were elected by the Board.

The term of office is five years, the official year beginning on the Tuesday preceding the Annual Commencement.

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Mark Willson Gill,	*Portland, Or.*	3 O. H.
§ George W. Meek Glenn,	*Fillmore, Pa.*	28 N. C.
Herbert Augustus Hill,	*Bridgeport.*	X. Ψ. *House.*
George Mead Hughes,	*Orange, N. J.*	9 O. H.
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§ Percy Lincoln Johnson,	*Bridgeport.*	A. Δ. Φ. *House.*
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§ Charles Manning Child,	*Higganum.*	X. Ψ. *House.*
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Richard Watson Cooper,	*Cheswold, Del.*	54 N. C.
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Edwin Parker Currier,	*Bakersfield, Vt.*	11 N. C.
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Charles Jessup Foster,	*Middletown.*	*90 Court St.*
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† James Alonzo Hulse,	*Amityville, N. Y.*	X. Ψ. *House.*
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Walter Everard Morse,	*Livermore Falls, Me.*	48 N. C.
Leonard Colburn Murdock,	*Cooperstown, N. Y.*	14 O. H.
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NAMES.	RESIDENCES.	ROOMS.
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Edwin Sloan Tasker,	*Manchester, N. H.*	12 S. C.
Wilson Wallace Thompson,	*Bridgeport.*	*5 Bailey Ave.*
§ John Jackson Tinker,	*Suffield.*	Δ. K. E. *House.*
Lewis Gardiner Westgate,	*Middletown.*	32 N. C.
John Quinby Wood,	*Brockton, Mass.*	*120 High St.*
§ Anna Harris Andrews,	*Hartford.*	*135 High St.*
§ Martha Josephine Beach,	*Middletown.*	*104 William St.*
Mary Romer Beach,	*Middletown.*	*1 High St.*
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§ Herbert Scott Eaton,	*Barton Landing, Vt.*	*187 Main St.*
Frank Prescott Fogg,	*Readfield, Me.*	64 N. C.

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§ Ralph Barnes Hibbard,	*New Britain.*	D O. H.
§ Samuel Pierson Hildreth,	*Bridgehampton, N. Y.*	Δ. K. E. *House.*
† Phillip Hallock Hopkins,	*Miller's Place, N. Y.*	39 N. C.
§ John Evan Jenkins,	*Shamokin, Pa.*	A O. H.
† Duncan Starr Johnson,	*Cromwell.*	X. Ψ. *House.*
Frederick Allen King,	*Thompsonville.*	16 O. H.
Linnæus Edford La Fétra,	*Washington, D. C.*	*11 Wyllys Ave.*
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§ Frank Bowers Littell,	*Scranton, Pa.*	60 N. C.
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† Frederick Howard Scott,	*Westfield, Mass.*	12 S. C.
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§ Oliver Cromwell Webster,	*Liberty, N. Y.*	33 N. C.
Charles Tapley Winchester,	*Springfield, Mass.*	62 N. C.
Leon Irving Wood,	*Waterbury.*	*39 Broad St.*
† Charles Bellamy Young,	*Middletown.*	*67 South Main St.*
§ Belle Evangeline Graves,	*Middletown.*	*135 High St.*
Ellen Mary Brainard Peck,	*Clinton.*	*135 High St.*

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† Arthur Peyton Bryant,	*Brookline, N. H.*	43 N. C.
Charles Dudley Burns,	*Brooklyn, N. Y.*	C O. H.
§ John Kelsey Burr,	*Jersey City, N. J.*	10 S. C.
George William Carter,	*Rhinebeck, N. Y.*	*97 William St.*
Samuel James Allen Conner,	*Chicago, Ill.*	31 N. C.
Alfred Cookman,	*Philadelphia, Pa.*	*108 William St.*
Albert Lyon Crowell,	*Lynn, Mass.*	16 O. H.
George Willets Davison,	*Rockville Centre, N. Y.*	*112 High St.*
§ William Morgan Douglass,	*Plymouth, Mass.*	*122 College St.*
§ Charles Myron Drew,	*Minneapolis, Minn.*	*86 High St.*
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George Mahon Eggleston,	*Waterbury.*	B O. H.
Herbert Charles Eldridge,	*Cutler, Me.*	55 N. C.
Elbridge Sears Fernald,	*Winterport, Me.*	25 N. C.
Frederick Hoole Floy,	*Elizabeth, N. J.*	11 S. C.
James Albert Foster,	*Middletown.*	*90 Court St.*
Lincoln Robinson Gibbs,	*Wiscasset, Me.*	*7 Wyllys Ave.*
Howard David Gordon,	*Hazardville.*	59 N. C.
Ralph Morgan Grant,	*Wapping.*	58 N. C.
§ Robert Henderson Guibord,	*Plattsburgh, N. Y.*	*112 High St.*
† William Henry Hall,	*S. Willington.*	9 S. C.
Archibald Clinton Harte,	*Catasauqua, Pa.*	*104 College St.*
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Lovell James Honiss,	*East Berlin.*	X. Ψ. *House.*
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William Henry Kidd,	*Middletown.*	*106 William St.*
August Kullman,	*Vineland, N. J.*	61 N. C.

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Herbert Barney Munson,	*Windham, N. Y.*	57 N. C.
Joseph White Naramore,	*Peekskill, N. Y.*	27 N. C.
Samuel Atkinson Noon,	*Brookfield, Mass.*	45 N. C.
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Hubert Ernest Parker,	*Norwich.*	53 N. C.
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Herbert Spencer Rooksby,	*Philadelphia, Pa.*	*108 William St.*
Everett Hallerton Scott,	*Rockville.*	*39 Broad St.*
Jewsuke Shimata,	*Yamaguchi, Japan.*	49 N. C.
Jonathan Hugh Slater,	*Hensonville, N. Y.*	57 N. C.
§ Robert Eberle Smith,	*Mauch Chunk, Pa.*	63 N. C.
§ Frederic Halsted Tackaberry,	*New York, N. Y.*	9 S. C.
§ Egbert James Tamblyn,	*Hackettstown, N. J.*	63 N. C.
Alfred Ernest Taylor,	*Gildersleeve.*	43 N. C.
Heber Ives Thayer,	*Higganum.*	*106 William St.*
Gordon Lewis Thompson,	*Essex, N. Y.*	17 N. C.
Roger Everett Thompson,	*Franklin Falls, N. H.*	Ψ. T. *House.*
William Dyson Tuckey,	*Churchtown, Pa.*	61 N. C.
Samuel J. Watson,	*Wilbraham, Mass.*	Δ. K. E. *House.*
† Henry Wisner Wood, Jr.,	*Chester, N. Y.*	23 N. C.
Lena Maud Adams,	*Wethersfield.*	*135 High St.*
Eva Dilks,	*Atlantic City, N. J.*	*135 High St.*
Lillian Wainright Hart,	*New Britain.*	*135 High St.*

SPECIAL STUDENTS.

Names.	Residences.	Rooms.
Frank Albert Galloway,	*Lowville, N. Y.*	*114 High St.*
John Donaldson Murray,	*Baltimore, Md.*	*125 College St.*
Fred Henry Ralsten,	*Lowville, N. Y.*	*114 High St.*
Grace Irene Chafee,	*Middletown.*	*57 College St.*
Nettie Louise Whitney,	*Hartford.*	*135 High St.*

SUMMARY.

Graduate Students,	5
Seniors,	42
Juniors,	50
Sophomores,	50
Freshmen,	66
Special Students,	5
Total,	218

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, and named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course the study of Latin and Greek forms a large part of the required work of the first two years. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above Courses, all of the studies of the first year are required, except that the Classical and Latin-Scientific students have the option between French and German. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies.

In the choice of these electives, the student is advised to exercise prudence and deliberation, and especially to regulate his choice so that his electives will together form a harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

The allotment of the subjects of study in the several Courses is set forth in the following table, in which the numbers in the columns headed "Required" show approximately what percentage of the whole work of the respective Courses consists of required studies in the several departments named; while the numbers in the columns headed "Elective" show the amount of elective work offered in the respective departments, computed on the same scale.

DISTRIBUTION OF REQUIRED AND ELECTIVE STUDIES IN THE CLASSICAL, LATIN-SCIENTIFIC, AND SCIENTIFIC COURSES.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Latin,	11	20	7	24	—	—
Greek,	11	20	—	—	—	—
Modern Languages,	4*	16	4*	13	13	4
Rhetoric and English Literature,	4	11	4	12	4	12
Logic, Psychology, and Ethics,	8	8	8	8	8	8
History and Political and Social Science.	5	8	5	8	5	8
Mathematics and Astronomy,	12	12	12	12	5	13
Physics,	5	16	5	17	5	17
Chemistry,	3	12	4	12	4	17
Biology,	3	15	6	12	6	13
Geology, Mineralogy, and Physical Geography,	4	10	5	8	5	8
Percentage of work required of each student in four years,	70	—	60	—	55	—
Percentage of elective work,	—	30	—	40	—	45

* Option is allowed between French and German. If these should therefore be counted as elective, the percentage of studies required in the Classical and in the Latin-Scientific Course would become 66 and 56, respectively.

The distribution of the required and elective work in each of the four years is shown in the following table:

PERCENTAGE OF REQUIRED AND ELECTIVE WORK FOR EACH YEAR IN EACH COURSE.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Freshman Year,	84	16*	83	17*	100	0
Sophomore "	84	16	53	47	69	31
Junior "	53	47	53	47	17	83
Senior "	29	71	29	71	29	71

* Option between French and German, one of which is required.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments.

TERMS OF ADMISSION.

CLASSICAL COURSE.—Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN.—Candidates are examined in either of the following courses, according to their option:—

I. Cæsar,—Gallic War, books I., II.; Vergil,—Æneid, books I. to VI., inclusive, Eclogues, Georgics (or two thousand lines of Ovid); Cicero,—eight orations; Latin Grammar, including Prosody; translation into Latin of simple English sentences and easy narratives based on the prose authors read.

Candidates are also allowed, at the option of the examiner, to substitute translation at sight from the authors specified in Course II. for some of the passages set from the authors required in Course I., and it is especially urged that systematic practice in accurate sight-reading be made a part of the preparatory training from the very first.

II. Translation at sight of passages from Cæsar, Cicero's Orations, Vergil, Ovid's Metamorphoses, Sallust, and Cornelius Nepos; Latin Grammar and Composition, as in Course I.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately

equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *aye*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *haphazard* and *boathook*; other consonants as in English.

GREEK.—Candidates are examined in either of the following courses according to their option:—

I. Four books of Xenophon's Anabasis; three books of Homer's Iliad; Hadley-Allen's or Goodwin's Greek Grammar; simple sentences in Prose Composition.

Candidates in Course I. may substitute the translation of a prose passage at sight as the equivalent of one of the passages set for the examination in the Anabasis. It is very desirable that all candidates shall have had training in translation at sight.

II. Translation at sight of average passages from Xenophon and from the Iliad (the candidate being supplied with a vocabulary of the less usual words). Prose Composition and Grammar as in Course I.

HISTORY AND GEOGRAPHY.—History of Rome to the death of Marcus Aurelius; History of Greece to the capture of Corinth; Ancient Geography. The amount of historical knowledge required for this examination may be obtained from the following books:—Cox's or Smith's Smaller History of Greece; Leighton's History of Rome (of which the introduction and chaps. i., ii., iv., xxix., xlvii., lv., lvi., lxv.-lxix., may be omitted). Tozer's Primer of Ancient Geography is recommended as the basis for instruction in Ancient Geography, and familiarity with map-drawing is especially desirable.

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures. 2. Algebra, through Quadratic Equations, including Arithmetical and Geometrical Progressions, and the use of the Binomial Formula for positive integral exponents,—so much, for example, as is contained in the first seven books of Newcomb's Algebra for Colleges, or in the first eighteen chapters of Loomis's Treatise on Algebra. 3. Plane Geometry,—so much as is contained in the first five books of Chauvenet's or Wentworth's Geometry, or the first six books of Newcomb's Geometry.

ENGLISH.—1. Each candidate will be required to write a short

English essay upon a subject announced at the time of the examination. This essay will be expected to show a general familiarity with the works mentioned below, and will be examined with especial attention to accuracy of grammar, spelling, and punctuation. In 1889, the subject of this essay will be taken from one of the following works, candidates being required, however, to be prepared on all of them:—Shakspere's Julius Cæsar and As You Like It, Gray's Elegy Written in a Country Churchyard, Scott's Marmion, Johnson's Lives of Swift and Gray, Thackeray's English Humorists, Swift's Gulliver's Travels, Miss Austen's Pride and Prejudice, Scott's Rob Roy.

In 1890, it will be taken from the following:—Shakspere's Julius Cæsar and Midsummer Night's Dream, Coleridge's Ancient Mariner, Longfellow's Evangeline, Macaulay's Essay on Lord Clive, Thackeray's English Humorists, Webster's first Bunker Hill Oration, Scott's Quentin Durward, George Eliot's Silas Marner, Hawthorne's House of the Seven Gables.

In 1891, it will be taken from the following:—Shakspere's Julius Cæsar and Merchant of Venice, Coleridge's Ancient Mariner, Longfellow's Evangeline, Macaulay's Essay on Lord Clive, Webster's first Bunker Hill Oration, Irving's Alhambra, Scott's Old Mortality, George Eliot's Silas Marner, Hawthorne's House of the Seven Gables.

In 1892, it will be taken from the following:—Shakspere's Julius Cæsar and As You Like It, Scott's Marmion, Longfellow's Courtship of Miles Standish, Addison's Sir Roger de Coverley Papers, Macaulay's second Essay on the Earl of Chatham, Webster's first Bunker Hill Oration, Irving's Alhambra, Scott's Talisman, George Eliot's Scenes from Clerical Life, Hawthorne's House of the Seven Gables.

2. Each candidate will be required to criticise specimens of English given him at the time of the examination.

Two hours will be allowed for the entire examination in English.

It is recommended that teachers of Greek and Latin in preparatory schools insist upon the use of simple and idiomatic English in translation.

LATIN-SCIENTIFIC COURSE.—Candidates for the Latin-Scientific Course will be examined in all of the above subjects except Greek. *They will also be examined in French or German as each candidate may elect. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight.*

SCIENTIFIC COURSE.—Candidates for the Scientific Course will be examined in the following books and subjects:—

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures. 2. Algebra, through the Theory of Equations,—so much, for example, as is contained in Newcomb's Algebra for Colleges, or Loomis's Treatise on Algebra. 3. Plane and Solid Geometry,—so much as is contained in Chauvenet's Geometry to Appendix I., or in Newcomb's Geometry, omitting the chapters on the Conic Sections. 4. Plane and Spherical Trigonometry, with the use of Logarithmic and Trigonometric Tables,—so much as is contained in Wheeler's Elements of Trigonometry.

ENGLISH.—Same requirements as for Classical Course.

FRENCH OR GERMAN.—Same requirements as for Latin-Scientific Course.

SPECIAL COURSES.—Special Students, not candidates for a degree, may be admitted upon passing such examination as the Faculty shall in each case prescribe.

No one can be admitted to the Freshman Class under the age of fifteen years, or to an advanced standing without a corresponding increase of age.

All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

A student who has accomplished half or more of the preparatory course, may be examined on that part, and receive credit therefor. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

The regular examination for admission is held on the Thursday and Friday of Commencement Week. All candidates must be present at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the Fall Term.

Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided that they make application to the President before June 1st. The time of these examinations will be Thursday and Friday of Commencement Week. But, if no applications are received before June 1st, these examinations will not be held.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

LATIN.

PROFESSOR MERRILL; MR. WILLIAMS.

I. Livy,—Books 21 and 22, with parallel readings from Polybius in translation. *Three hours a week during first half-year.*

Horace,—Epodes, Satires, Odes, and Epistles, *Three hours a week during second half-year.*

Exercises in Sight Translation and Prose Composition throughout the year.

Course I. is required of Classical and Latin-Scientific Freshmen.

In connection with Course I. a brief course in Roman History (V. History) is required. This course is under the supervision of Professor Wilson, but the immediate instruction is given by Mr. Williams.

II. Plautus,—Trinummus; Terence,—Andria; Cicero,—Selected Letters; Tacitus,—Agricola and Germania. *Five hours a fortnight.*

Course II. is required of Classical Sophomores, and elective for Latin-Scientific Sophomores.

III. Livy,—Books 5–7; Sallust,—Catilinarian Conspiracy and Jugurthine War; Plautus,—Mostellaria; Terence,—Adelphi; Vergil,—Aeneid, Books 10–12. *Five hours a fortnight.*

The object of Course III. is to give instruction and practice in the rapid reading of Latin. To this end systematic drill is given in tracing the development of thought as indicated by the Latin order of words, and in understanding the language at sight and hearing without translation.

Course III. is elective for those who have taken Course I. and who also take, or have taken, Course II.

The following courses are elective for all who have taken Courses I., II., and III.

IV. Pliny the Younger,—Selected Letters; Tacitus,—Annals, Books 1–3, with readings from Velleius Paterculus and Suetonius; Tibullus,—Selected Elegies; Private readings. *Five hours a fortnight.*

Course IV. will be omitted for the year 1889–90.

V. Catullus; Tacitus,—Histories, Books 1–3; Ovid,—Selections from the Tristia, with readings from the Poetæ Latini Minores; Private readings. *Five hours a fortnight.*

Course V. is omitted the present year, but will be given in the year 1889–90.

VI. Cicero,—De Natura Deorum; Quintilian,—Readings from the Institutes; Juvenal,—Selected Satires; Private readings. *Five hours a fortnight.*

Course VI. will be omitted for the year 1889–90.

VII. Lucretius,—Books 1, 2, and 5; Cæsar,—Civil War; Propertius; Private readings. *Five hours a fortnight.*

Course VII. is omitted the present year, but will be given in the year 1889–90.

VIII. During the second half-year the Professor in charge will conduct a series of about six conferences of an hour each on the History and Methods of Classical Study and Teaching. These conferences will be open, on application to the leader, to all persons interested, but are designed especially for those students in the advanced courses who are intending to teach Latin.

GREEK.

PROFESSOR VAN BENSCHOTEN; MR. TAYLOR.

I. Herodotus. Special attention to Morphology and Etymology; Greek History. *Four hours a week during first term.*

Thucydides; Syntax, with Composition. *Four hours a week during second term.*

Homer; Prosody; Lectures on Greek language and life in Homeric literature. *Nine hours a fortnight during third term.*

Throughout the year considerable time is given to sight-reading, and students are encouraged to read large amounts with as little use of lexicon and grammar as possible. In recitation, accuracy of translation and good English are required.

Course I. is required of Classical Freshmen.

II. Aeschines and Demosthenes on the Crown. Lectures on the Public Life of the Greeks. A course of collateral reading is required, covering Butcher's Demosthenes, Jebb's Primer of Greek Literature, and portions of Jebb's Greek Orators. *Five hours a fortnight during first term.*

Aeschylus,—Prometheus Bound; Sophocles,—Antigone. Lectures on Greek Drama, with illustrations. The collateral reading includes Jebb's Primer of Greek Literature, and portions of Jevons' History of Greek Literature and Mahaffy's History of Greek Literature. *Five times a fortnight during second term.*

Plato,—Euthyphro, Apologia, Crito, Phædo. Lectures on Greek Philosophy. Rapid translation, with attention to the style and thought of the author. The collateral reading includes introductory chapters of Grote's Plato, and Zeller's Outlines of Greek Philosophy. *Five hours a fortnight during third term.*

During Sophomore year the cultivation of the sense of style and of the ability to appreciate beauty in literature is especially aimed at.

Course II. is required of Classical Sophomores.

III. Greek Comedy,—The Frogs and the Acharnians of Aristophanes. Greek Tragedy,—Aeschylus, Sophocles, Euripides. *Five times a fortnight.*

IV. Greek Philosophy,—Plato, Aristotle, and Xenophon; The Clouds of Aristophanes. *Five times a fortnight.*

In connection with III. and IV., fortnightly meetings are held for special studies in the Greek language and literature.

These courses are intended for those who desire a wider acquaintance with Greek literature and a more technical knowledge of grammar and the details of interpretation. They are given in alternate years, III. being given the current year.

Courses III. and IV. are elective for those who have taken Courses I. and II.

V. Biblical Greek,—The Gospels and the Acts; Teaching of the Apostles. *Five times a fortnight.*

VI. Biblical Greek,—The Epistles of the New Testament; The Septuagint. *Five times a fortnight.*

In connection with these courses, fortnightly meetings are held for special studies in methods of interpretation and in the history of the text. They are alternate courses, V. being given the current year.

Courses V. and VI. are elective for those who have taken Courses I. and II.

VII. Pindar; Lucian; Neo-Hellenic; Readings in Pausanias, with studies on the geography and topography of Greece, and on Greek art and life. *Five times a fortnight.*

Course VII. is elective for those who have taken either III. or IV.

MODERN LANGUAGES.

PROFESSOR PRENTICE.

FRENCH.

I. Whitney's French Grammar, Part I. Readings in Voltaire's Louis XIV., edition of Mason and Prothero, or Crane's Le Romantisme Français. In connection with the readings, selections from the second part of Whitney's Grammar are assigned the class for study. Various exercises based on the readings are given in each recitation. *Five times a fortnight.*

II. Readings from O'Connor's Choix de Contes Contemporains; Molière's Le Misanthrope, Brette's edition; Corneille's Horace; D'Harleville's Le Vieux Célibataire, the Pitt Press edition; Sainte Beuve's M. Daru, the Pitt Press edition.

Sight readings from Choix de Contes Contemporains, the College Series of French Plays, or Knapp's French Readings.

The sections of Whitney's French Grammar that treat of negation, the uses and succession of the moods, and prosody, are studied in connection with the readings. *Five times a fortnight.*

GERMAN.

I. Whitney's German Grammar, commencing with the lessons outlined in the preface. Whitney's German Reader. With the readings are assigned daily a part of the passages for translation into German of the first and second series in the supplement to the Grammar. The sentences are put upon the black-board for criticism and correction. After the first examination, special attention is given to gaining a mastery of the irregular verbs and the rules for the gender of the nouns. *Five times a fortnight.*

II. Selections from Hart's Goethe's Prosa; Schiller's Wilhelm Tell, Buchheim's edition; Lessing's Minna Von Barnhelm, Whitney's edition; Goethe's Iphigenie auf Tauris, Carter's edition. Systematic sight-readings from Stern's Select German Comedies. Grammatical

work is connected with the course of reading, special attention being paid to the sections of the Grammar which treat of the construction and order of sentences. *Five times a fortnight.*

III. Schiller's Wallenstein Trilogy; Lessing's Nathan der Weise; Goethe's Faust. Each play is studied so as to connect it with the general literary movements of its time, as well as with the personal career of its author. Lectures are given on the personal and literary history of every author read. An attempt is made to appreciate the value of the most enlightened criticism to which these dramas have been subjected. *Five times a fortnight.*

This course is given in alternate years, being omitted the current year.

Of the courses outlined above, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Candidates for the Latin-Scientific and Scientific Courses are examined at entrance to test their ability to read at sight easy passages in French or German as they may elect. Students in the Latin-Scientific Course are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, at their choice. Students in the Scientific Course must, during the first two years, take either I. French, II. French, and II. German, or I. German, II. German, and II. French, according as they were examined at entrance in German or French. Aside from these restrictions, each course in either language is elective for those who have previously taken the preceding course or courses in the same language.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR WINCHESTER; MR. TAYLOR AND MR. WILLIAMS.

I. ENGLISH LANGUAGE. Trench's English Past and Present, with a short course of lectures upon the rise and early history of the language. *Three times a fortnight during the first half-year.*

ELEMENTARY RHETORIC, with frequent practical exercises. *Three times a fortnight during the second half-year.*

Course I. is required of all Freshmen.

II. RHETORIC. Genung's Practical Rhetoric. The members of the class are required to write—in addition to their regular essays—occasional exercises illustrating and applying the principles laid down

in the text-book; and they read, for criticism and discussion in the class-room, two or three specimens of the best modern English prose. The writings selected for such reading and criticism this year are Macaulay's Life of Johnson and Carlyle's Essay on Johnson. *Five times a fortnight during the first half-year.*

Course II. is required of all Sophomores.

III. ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's Primer of English Literature, with lectures. *Three times a fortnight.*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspere's Hamlet; selections from Pope's Satires. *Once a week.*

3. A brief course of collateral reading. Every member of the class must take one of the courses named below. Schedules of the courses, with lists of books on biography and criticism, may be had in the library. Examinations on this reading are held at the end of each term. The courses for the present year are as follows:

(1) Marlowe's Faustus and Green's Friar Bacon; Shakspere's Henry IV., As You Like It, Antony and Cleopatra, A Winter's Tale, and ten sonnets; Bacon's Essays,—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost, Book I., Samson Agonistes.

(2) Johnson's Lives of Milton, Dryden, Swift, Addison, Pope, and Gray; Milton's Comus and Paradise Lost, Book I.; Dryden's Absalom and Achitophel; Swift's Tale of a Tub, Journal to Stella, letters I.–XII.; Selected Essays of Addison, Winchester's edition; Pope's Rape of the Lock; Gray's Elegy.

(3) Thackeray's Lectures on Swift, Addison, Steele, Prior, Gay, Pope, Sterne, and Goldsmith; Swift's Tale of a Tub, Battle of the Books, Journal to Stella, letters I.–XII.; Selected Essays of Addison, Winchester's edition; Selected Essays of Steele, Dobson's edition; Goldsmith's Deserted Village, Retaliation, and Vicar of Wakefield; Leslie Stephen's Johnson, chaps. iii., iv.

(4.) Leslie Stephen's Johnson, chaps. iii., iv.; Macaulay's Life of Johnson; Johnson's Rasselas and Vanity of Human Wishes; Cowper's Task, Book I.; Burke's Two American Speeches, Reflections on the Revolution in France,—the first half, Letter to a Noble Lord; Burns,—selected poems.

(5.) Burns,—selections; Wordsworth,—selected poems in Arnold's edition; Shelley,—selected poems in Stopford Brooke's edition; Keats'

Hyperion, Odes, and Sonnets; Byron,—one canto of Childe Harold; Lamb,—selections from the essays of Elia; De Quincey's Recollections of Lamb and Wordsworth, Suspiria de Profundis; Shairp's Essay on Wordsworth.

Course III. is elective for those who have taken Courses I. and II.

IV. ENGLISH LITERATURE from 1830 to 1880, especially as represented in the work of Carlyle, Tennyson, and Browning. Members of the class will read carefully the principal writings of these authors; will consider their attitude toward the leading movements in thought and in society during a half-century; and will prepare abstracts and critical studies of what they read, for discussion before the class. *Five times a fortnight.*

Course IV. is open only to those who have taken Course III.

V. ENGLISH COMPOSITION. Every member of the Sophomore and Junior classes is required to write nine essays in the year; every Senior must write an argument for debate before his class, and either four essays or two public orations. The Sophomores meet nine times a year for general class discussion and criticism of their themes; and every member of the Junior class meets the Professor privately, once a term, for individual criticism upon his work.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. The Freshman, Sophomore, and Junior Classes are required to present declamations, mostly of their own selection, fortnightly.

The classes are divided into sections of ten or twelve each, and the exercise for each section occupies one hour. Criticism is made upon personal defects, and suggestions are given with regard to vocal culture and proper courses of practice.

During the Sophomore and Junior years, occasional exercises are required to be taken from some particular author.

The work in this department is largely of a practical character, and aims to preserve and develop in each student, as far as possible, his best personal characteristics as a speaker.

II. THEORY OF ELOCUTION. The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given, and the text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation, to be delivered before the class for criticism. The purpose of the work this term is to render each student competent to judge correctly of his own expression of thought and feeling, and to intelligently criticise others. *Twice a week.*

Course II. is elective for Juniors.

HISTORY AND POLITICAL ECONOMY.

PROFESSOR WILSON.

I. HISTORIES OF ENGLAND AND FRANCE. A course of topical lectures in which English and French topics are made to run, as nearly as possible, parallel to each other chronologically, with the double object of affording clues to general European history and of setting the history of the English race in its European connections. Fifteen or sixteen lectures on the Renaissance and Reformation are also included in this course, being introduced when the topics in English and French history have been advanced to the fifteenth century. Required parallel reading is assigned, and frequent recitations are held upon the subject matter of the lectures. *Five times a fortnight.*

Course I. is elective for Juniors.

II. HISTORY OF INSTITUTIONS. The central aim of this course is to put the development of the political institutions and of the politics of the United States in its true historical setting. It covers such topics as the following: The origin and development of government; ancient political systems; mediæval political organization; the constitutional growth of the leading European states, and the chief features of their constitutions; the governments of England and the United States; the functions and aims of government; the nature and development of law, etc. Parallel readings are assigned and frequent oral examinations are held. *Five times a fortnight.*

Course II. is elective for Seniors.

III. CONSTITUTION OF THE UNITED STATES. Cooley's Principles of Constitutional Law is used as a text-book in the legal aspects of the fundamental law of the Union; but the object of the instruction is to familiarize the class with all the main aspects of our constitution, both state and federal, unwritten developments, practical questions, legislative machinery, etc. For this purpose various commentaries of different grades are more or less used, and supplementary lectures are given. *Five times a fortnight during second half-year.*

Course III. is required of Juniors.

IV. POLITICAL ECONOMY AND STATISTICS. F. A. Walker's Advanced Political Economy is used as a text-book, and lectures are given on the history of economic thought. The work in political economy is supplemented by a brief course in the general principles of statistics. *Four times a week during first half-year.*

Course IV. is required of Seniors.

V. ROMAN HISTORY. A required course in Roman history is given by the Tutor in Latin to Classical and Latin-Scientific Freshmen. Ihne's Early Rome is used as a text-book, and required collateral reading in carefully selected general topics is assigned. *Once a week.*

VI. GREEK HISTORY. A brief course of instruction in Greek history is given the Classical Freshmen by the Tutor in Greek.

PHILOSOPHY.

PROFESSOR ARMSTRONG.

I. LOGIC. Jevons-Hill's Elements of Logic. The aim of this course is to ground the student in the fundamental forms of reasoned thinking, deductive and inductive alike. Logic is viewed not merely as a preliminary philosophical discipline, but as preparatory to all later and more advanced work. The study of the text-book is emphasized by numerous examples in logical praxis. *Five times a fortnight during the second half-year.*

Course I. is required of Sophomores.

II. PSYCHOLOGY. McCosh's Psychology, with frequent references to Sully's Outlines of Psychology. Instruction is not confined to the text-book, but lectures and discussions are held to supplement and explain it. These are employed especially in illustration of the more recent psychological investigations and of positions still under debate. *Five times a fortnight during first half-year.*

Course II. is required of Juniors.

III. LOGIC AND PHILOSOPHY. In the former part of the year, Stuckenberg's Introduction to the Study of Philosophy, with informal lectures and discussions. In the latter part of the year the History of Philosophy is begun, including the ancient and mediæval schools, with Schwegler's History of Philosophy as a handbook. The course concludes with a consideration of the history and validity of the inductive method. *Five times a fortnight.*

Course III. is elective for Juniors.

IV. HISTORY OF PHILOSOPHY. Schwegler's History of Philosophy is used as the basis for an outline course in the development of philosophic thought. Special consideration is given to the chief modern schools, and readings from the philosophical classics are used for purposes of illustration. *Five times a fortnight.*

Course IV. is elective for Seniors.

ETHICS AND CHRISTIAN EVIDENCES.

PROFESSOR RICE; PROFESSOR ARMSTRONG.*

I. EVIDENCES OF CHRISTIANITY. Fisher's Grounds of Theistic and Christian Belief. The lessons assigned are of somewhat unusual length, so that the time allotted to the study suffices for the reading of nearly the whole of the book. The recitation hours are occupied chiefly in general discussion. In the examination, ability to give an intelligent discussion of the various lines of argument is required, rather than minute familiarity with the text-book. *Twice a week during the last thirteen weeks of the year.*

Course I. is required of Seniors. It is conducted this year by Professor Rice.

II. ETHICS. Porter's Elements of Moral Science. The instruction in this subject is conducted by recitations and class-room discussions. The former part of the course is given to theoretical ethics, with a somewhat extended treatment of the psychology of conscience and of the several theories of moral obligation. The progress of ethical inquiry is explained in connection with the history and criticism of the leading British schools. The remainder of the course is devoted to practical ethics. *Twice a week during the second half-year.*

Course II. is required of Seniors. It is conducted this year by Professor Armstrong.

* Instruction in Ethics and Christian Evidences is usually given by the President.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. JAMES; MR. E. B. VAN VLECK.

I. SOLID GEOMETRY. Chauvenet's Elementary Geometry. *Four times a week during the first third of the year.*

ALGEBRA. Hall and Knight's Higher Algebra. *Nine times a fortnight during the second third of the year.*

TRIGONOMETRY, with applications to Surveying and Navigation. Newcomb's Trigonometry; Newcomb's Logarithmic Tables. *Four times a week during the last third of the year.*

Course I. is required of Classical and Latin-Scientific Freshmen.

II. ANALYTICAL GEOMETRY of two dimensions. Bowser's Analytic Geometry. *Three times a week during the first term.*

Course II. is required of all Classical and Latin-Scientific Sophomores and Scientific Freshmen, except those who elect Course III.

III. ANALYTICAL GEOMETRY; DIFFERENTIAL CALCULUS,—preceded by a short course of lectures on Determinants. Casey's Conic Sections; Aldis's Solid Geometry; Williamson's Differential Calculus. *Five times a week during the first term, and five times a fortnight during the second and third terms.*

Course III. is elective for Classical and Latin-Scientific Sophomores, and for Scientific Freshmen.

IV. DIFFERENTIAL AND INTEGRAL CALCULUS. Taylor's Treatise on Differential and Integral Calculus. *Five times a fortnight.*

Course IV. is elective for those who have taken Courses I. and II.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Byerly's Treatises on Differential and Integral Calculus. *Five times a fortnight.*

Course V. is elective only for those who have taken Course III.

VI. ASTRONOMY,—a general course, requiring only elementary mathematics. Young's Text-Book of General Astronomy. *Three times a week during the second and third terms.*

Course VI. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

VII. PRACTICAL ASTRONOMY. Chauvenet's Spherical and Practical Astronomy; American Ephemeris and Nautical Almanac. *Five times a fortnight, with practical exercises in the Observatory.*

Course VII. is open to those Classical and Latin-Scientific Seniors, and Scientific Juniors, who have taken Course III. or Course IV.

In addition to the foregoing, Professor Van Vleck and Mr. James will assist candidates for honors and graduate students in their mathe-

matical reading, meeting them at such times as may be determined by mutual agreement. The subject chosen for the current year is Projective Geometry.

Furthermore, an elementary course in Modern Geometry is conducted by Mr. E. B. Van Vleck, the class meeting once a week. This course is open to Freshmen.

PHYSICS.

PROFESSOR CRAWFORD.

I. ELEMENTARY PHYSICS. The first half-year is devoted to Mechanics, Hydrostatics, and Pneumatics, with Lodge's Elementary Mechanics as text-book. In the second half-year the course consists of lectures on Sound, Light, Heat, and Electricity, following Stewart's Elementary Physics as an outline. *Three times a week during first and third terms, five times a fortnight during second term.*

Course I. is required of Classical and Latin-Scientific Sophomores, and Scientific Freshmen.

II. SOUND AND LIGHT. A course of lectures on Sound and Light, including an elementary mathematical discussion of Vibratory Motion in general. Numerous experiments, with opportunity for discussion and for examination of instruments on the part of members of the class. *Five times a fortnight.*

III. ELECTRICITY AND HEAT. A course of lectures on Electricity and Heat, in continuation of II. *Five times a fortnight.*

Courses II. and III. are elective for those who have taken Course I. They are given in alternate years, Course II. being given the current year.

IV. PRACTICAL PHYSICS. The work of this course is variable, being adapted in large measure to the needs and tastes of the individual student. In some cases the experiments assigned are mostly of a simple qualitative nature, and cover a wide range of subjects. In other cases the student proceeds at once to experiments involving accurate measurements, like those described in the manuals of Kohlrausch, Glazebrook and Shaw, and Stewart and Gee. *Those who take this course must work at least two and a half hours consecutively in the laboratory five times a fortnight.*

Course IV. is elective for those who have taken Course I.

V. PRACTICAL PHYSICS. A continuation of the Junior laboratory course, requiring the same amount of time.

Course V. is elective for those who have taken Course IV.

CHEMISTRY.

PROFESSOR ATWATER; MR. CLARK.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. The exercises consist of lectures and laboratory practice, with occasional recitations, chiefly written. Remsen's Introduction to Chemistry is used, as giving very convenient descriptions of experiments. Each student performs the larger number of the experiments given in such a book, and numerous others. *Seven times a fortnight during the second term, three times a week during the third term.*

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. QUALITATIVE ANALYSIS. It is assumed that Course I. will give sufficient drill in the principles of the science and in laboratory practice to enable the student to work understandingly in qualitative analysis, to which the first year's elective work in the laboratory is, in most cases, devoted. Each exercise occupies at least two and a half hours. Opportunity for spending a longer time in the laboratory is offered to all and utilized by a considerable number of the students. The usual course of preliminary study of reactions and subsequent analysis of complex substances is pursued. Comparatively little use is made of tables or text-books of qualitative analysis except such as the students prepare for themselves on the basis of their own observations, with the aid, of course, of oral explanations and lectures. *Five times a fortnight.*

Course II. is elective for those who have taken Course I.

III. QUANTITATIVE ANALYSIS. This is usually taken up at the beginning of the second year's work in the laboratory. After a series of general exercises for practice, such as are laid down in Fresenius' Quantitative Analysis, the students are encouraged to enter upon special work, such as seems desirable in each case. Those who propose to study medicine, for instance, engage in the preparation and determination of the proximate compounds of the body, in urine analysis, or in other work, qualitative as well as quantitative, in physiological chemistry. *Required time the same as for Course II.*

Course III. is elective for those who have taken Course II.

IV. ADVANCED CHEMISTRY, ORGANIC, THEORETICAL, AND PHYSIOLOGICAL. The exercises in this course consist of laboratory work, lectures, and recitations, and include also readings and essays

upon special topics. The class meet the instructor in a less formal manner than is usual in other subjects. The course is somewhat flexible, and the attempt is made to adapt it to the special wants of the class. It is usually taken after Course II., and in connection with Course III. The following special topics are assigned for the current college year:—1. Constitution of compounds in the animal body. 2. Non-albuminoid "protein" compounds. 3. Albuminoids. 4. Carbohydrates. 5. Replacement of nutrients in proportion to potential energy. *Five times a fortnight.*

Course IV. is elective for those who have taken Course I.

V. For students in the Scientific Course who desire to pursue the study of Chemistry beyond the limits of Courses I.–IV., further work is provided.

Candidates for special honors in Chemistry pursue special lines of study and laboratory work cognate with those in Course IV.

EXPERIMENT STATION. As stated in more detail in the October BULLETIN of the current year, the chemical investigations of the Storrs Agricultural Experiment Station, of which Professor Atwater is Director, are carried on in the chemical laboratory.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. Leconte's Compend of Geology is used as a text-book, and is supplemented by lectures. The problems of dynamical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. Illustrations of geological principles are taken, so far as practicable, from localities in the immediate vicinity of Middletown; and occasional excursions are arranged to give a knowledge of local geology, and to teach the student how to observe geological phenomena in general. *Three times a week during the second and third terms.*

Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. ADVANCED GEOLOGY. It is desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy, especially the two former. The first and the second term are occupied with informal and conversational recitations in Leconte's Elements of Geology, five times a fortnight. This part of the course is intended to give the student a more

CHEMISTRY.

PROFESSOR ATWATER; MR. CLARK.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. The exercises consist of lectures and laboratory practice, with occasional recitations, chiefly written. Remsen's Introduction to Chemistry is used, as giving very convenient descriptions of experiments. Each student performs the larger number of the experiments given in such a book, and numerous others. *Seven times a fortnight during the second term, three times a week during the third term.*

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. QUALITATIVE ANALYSIS. It is assumed that Course I. will give sufficient drill in the principles of the science and in laboratory practice to enable the student to work understandingly in qualitative analysis, to which the first year's elective work in the laboratory is, in most cases, devoted. Each exercise occupies at least two and a half hours. Opportunity for spending a longer time in the laboratory is offered to all and utilized by a considerable number of the students. The usual course of preliminary study of reactions and subsequent analysis of complex substances is pursued. Comparatively little use is made of tables or text-books of qualitative analysis except such as the students prepare for themselves on the basis of their own observations, with the aid, of course, of oral explanations and lectures. *Five times a fortnight.*

Course II. is elective for those who have taken Course I.

III. QUANTITATIVE ANALYSIS. This is usually taken up at the beginning of the second year's work in the laboratory. After a series of general exercises for practice, such as are laid down in Fresenius' Quantitative Analysis, the students are encouraged to enter upon special work, such as seems desirable in each case. Those who propose to study medicine, for instance, engage in the preparation and determination of the proximate compounds of the body, in urine analysis, or in other work, qualitative as well as quantitative, in physiological chemistry. *Required time the same as for Course II.*

Course III. is elective for those who have taken Course II.

IV. ADVANCED CHEMISTRY, ORGANIC, THEORETICAL, AND PHYSIOLOGICAL. The exercises in this course consist of laboratory work, lectures, and recitations, and include also readings and essays

upon special topics. The class meet the instructor in a less formal manner than is usual in other subjects. The course is somewhat flexible, and the attempt is made to adapt it to the special wants of the class. It is usually taken after Course II., and in connection with Course III. The following special topics are assigned for the current college year:—1. Constitution of compounds in the animal body. 2. Non-albuminoid "protein" compounds. 3. Albuminoids. 4. Carbohydrates. 5. Replacement of nutrients in proportion to potential energy. *Five times a fortnight.*

Course IV. is elective for those who have taken Course I.

V. For students in the Scientific Course who desire to pursue the study of Chemistry beyond the limits of Courses I.–IV., further work is provided.

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GEOLOGY.

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Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. ADVANCED GEOLOGY. It is desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy, especially the two former. The first and the second term are occupied with informal and conversational recitations in Leconte's Elements of Geology, five times a fortnight. This part of the course is intended to give the student a more

complete and comprehensive knowledge of the general principles of the science than can be gained in the required course. The subject of Paleontology, especially, is treated much more fully than is possible in the required course. Besides the lessons in the text-book, special topics for study, with references to authorities, are from time to time assigned to each member of the class. And the lectures on these topics by the members of the class are criticized and discussed by the class. Frequent excursions afford opportunity for practice in observation in the field. The last term special topics are assigned to individual students, or to groups of students. According to the nature of the topic, the materials of research may be found in the library, the museum and laboratory, or the field. The instructor gives to each student such guidance and assistance as may be practicable or desirable. Groups of students engaged on the same topic or on closely related topics meet from time to time to hear and discuss the reports of each other's work.

Course II. is elective for those who have taken Course I.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, with Geikie's Elementary Lessons as text-book. *Five times a fortnight during the first term.*

Course III. is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

IV. MINERALOGY. This course comprises three parts, each occupying approximately one term:—1, a course of lectures on crystallography, with practical exercises in the study of crystallographic models and of crystals; 2, a course of laboratory work in determinative mineralogy, and a brief course of lectures on optical mineralogy; 3, a course of lectures on descriptive mineralogy. The lectures on descriptive mineralogy are given in the Museum, so that the characteristics of each important mineral can be illustrated by a full suite of specimens. The works of Dana and Brush are used for reference. *Five times a fortnight.*

Course IV. is elective for Classical and Latin-Scientific Juniors, and for Scientific Sophomores.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. The object of the

course is to give the student a general knowledge of the functions of the various organs of the body in their normal condition. The origin, distribution, and final transformations of the energy of the body are treated in accordance with the doctrine of the conservation of energy. Enough anatomy is given to render the physiological discussions intelligible, and enough of hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures. *Six times a week during eleven weeks of the first term.*

Course I. is required of Classical and Latin-Scientific Juniors, and Scientific Sophomores.

II. BOTANY. Gray's Lessons, accompanied by lectures upon subjects not treated in the text-book. Both lessons and lectures are illustrated, as far as possible, by specimens, especial attention being given to microscopic structure. As soon as the season allows, in the spring, the class-room exercises are replaced by laboratory work, and the rest of the time until Commencement is spent in practical laboratory work, including analysis and description of plants, and the study of structural botany. *Five times a fortnight during the second and third terms.*

Course II. is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

III. ZOOLOGY. Lectures, recitations, and class dissections. This course is designed to give the student a knowledge of the phenomena connected with life in general. Typical examples, illustrating the various groups of the animal kingdom, are described, and dissected by the class, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Five times a fortnight.*

Course III. is elective for Classical Juniors, and for Latin-Scientific and Scientific Sophomores.

IV. PRACTICAL BIOLOGY. The Practical Biology courses are very elastic. Being laboratory courses under personal direction, there is opportunity for a wide amount of variation to suit individual needs. The design of these courses is to furnish opportunity for special advanced biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to physiology, histology, and the

dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mold, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, various principles of biology, comparative anatomy, and embryology.

Those electing this course must spend at least two and a half hours consecutively in the laboratory five times a fortnight.

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY. The second year is devoted to experiments in physiology, and to the study of histology, bacteriology, embryology, and mammalian anatomy. For part of the course, outside reading may be substituted upon such subjects as seem most desirable for each student, or, in particular cases, special and irregular work may be assigned. *Time required same as in IV.*

Course V. is elective for those who have taken Course IV.

Courses IV. and V. are open to only a limited number of students.

Tabular Statement of the Courses of Study.

The Arabic numerals indicate approximately the whole number of exercises for the year in the respective studies. Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the Courses of Instruction in that department. A brace enclosing the names of two or more studies indicate that those studies jointly extend through the year, the time being divided between them.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	140	I. Mathematics,	140
I. Greek,	140	I. English,	50

ELECTIVE.

(One to be chosen.)

I. French,	85	I. German,	85

SOPHOMORE YEAR.

REQUIRED.

II. Latin,	85	Analytical Geometry,	40
II. Greek,	85	I. Physics,	95
Rhetoric,	45	I. Chemistry,	70
Logic,	40		

ELECTIVE.

(One to be chosen.)

III. Latin,	85	II. German,	85
III. Mathematics,	85	Botany,	50
II. French,	85	Physical Geography,	35

JUNIOR YEAR.

REQUIRED.

Astronomy,	65	Psychology,	45
I. Geology,	75	Constitution of U. S.,	40
Physiology,	65		

ELECTIVE.

(Three to be chosen.)

IV. Mathematics,	85	Elocution,	70
V. Mathematics,	85	I. History,	85
II. (or III.) Physics,	85	III. Philosophy,	85
IV. Physics (Practical),	85	IV. (or V.) Latin,	85
II. Chemistry (Practical),	85	VI. (or VII.) Latin,	85
IV. Biology (Practical),	85	III. (or IV.) Greek (Classical),	85
Zoology,	85	V. (or VI.) Greek (Biblical),	85
Mineralogy,	85	III. German,	85
III. English (Literature),	85		

SENIOR YEAR.

REQUIRED.

Ethics, Christian Evidences, Political Economy,	35
	25
	65

ELECTIVE.

(Four to be chosen.)

Practical Astronomy,	80	II. Geology,	80
V. Physics (Practical),	80	IV. Philosophy,	80
III. Chemistry (Practical),	80	II. History,	80
IV. Chemistry,	80	IV. English (Literature),	80
V. Biology (Practical),	80	VII. Greek,	80

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	140	Botany, Physical Geography,	50
I. Mathematics,	140		35
I. English,	50		

ELECTIVE.

(One to be chosen.)

I. French,	85	I. German,	85
II. French,	85	II. German,	85

SOPHOMORE YEAR.

REQUIRED.

Analytical Geometry,	40	Rhetoric,	45
I. Physics,	95	Logic,	40
I. Chemistry,	70		

ELECTIVE.

(Three to be chosen.)

III. Mathematics,	85	III. Latin,	85
II. Latin,	85	Zoology,	85

JUNIOR YEAR.

Same as in the Classical Course, with the omission of the electives in Greek and Zoology.

SENIOR YEAR.

Same as in the Classical Course, with the omission of the elective in Greek.

SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

Analytical Geometry,	40	I. English,	50
I. Physics,	95	Botany,	50
I. Chemistry,	70	Physical Geography,	35
I. German,	85	I. French,	85
II. French,	85	II. German,	85

or

Students must take the first two, or the second two, of the above courses in Modern Languages, according as they have passed in the French or the German required for admission. In the former case they must take II. German, in the latter case, II. French, in Sophomore year.

SOPHOMORE YEAR.

REQUIRED.

Astronomy,	65	Rhetoric,	45
I. Geology,	75	Logic,	40
Physiology,	65		

NOTE.—Those who desire to elect III. Mathematics may do so by postponing one of the courses of Freshman year.

ELECTIVE.

(Two to be chosen, besides either II. French or II. German.)

III. Mathematics, -	85	II. Chemistry (Practical), -	85
IV. Mathematics, - -	85	Mineralogy, - - -	85
V. Mathematics, - -	85	Zoology, - - - -	85
II. (or III.) Physics, -	85	III. German, - - -	85
IV. Physics (Practical),	85		

NOTE.—The Course V. Mathematics is open only to those who have taken III. Mathematics in Freshman year.

JUNIOR YEAR.

REQUIRED.

Psychology, } - - - - - - - -	45
Constitution of U. S., } - - - - - - - -	40

ELECTIVE.

(Five to be chosen.)

V. Physics (Practical),	85	II. Geology, - - -	80
III. Chemistry (Practical),	85	III. English (Literature), -	85
IV. Chemistry, - -	80	Elocution, - - - -	70
IV. Biology (Practical),	85	I. History, - - - -	85
Practical Astronomy, -	80	III. Philosophy, - - -	85

SENIOR YEAR.

REQUIRED.

Same as in Classical Course.

ELECTIVE.

(Four to be chosen.)

V. Biology (Practical), -	80	II. History, - - -	80
V. Chemistry, - -	80	IV. English (Literature), -	80
IV. Philosophy, - -	80		

In addition to the courses indicated in the foregoing tabular statement, exercises in English composition and public speaking are required of all the classes, as specified on page 30.

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on page 46. In that table each study is assigned to that year to which it belongs in the Classical Course. Exercises which occur on

alternate days are denoted by the signs * and †. Of these half-studies, those which are marked with the same sign occur on the same days; those marked with different signs occur on alternate days. It will be observed that recitations in half-studies assigned to the same hour will interfere with each other only when they are marked with the same sign. Letters following the names of studies indicate the days of the week on which certain exercises occur. Letters in connection with the sign * or † indicate that an exercise occurs on the day mentioned in those weeks only in which other exercises marked with the same sign occur on that day. The sign ‡ indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Arabic numerals following the names of certain studies indicate the sections into which the classes are divided. Roman numerals are used to distinguish different courses in the same department, having the same significance here as in the above statements of the Courses of Instruction.

The Chemical Laboratory is open for students in Practical Chemistry, on the days denoted by a *, from 2 P. M. till 6 P. M.; the Biological Laboratory and the Physical Laboratory are open for students in Practical Biology and Practical Physics respectively, on the days denoted by a †, from 2 P. M. till 5 P. M. Each student electing either of these studies is required to spend at least two and a half hours consecutively in the Laboratory.

PROGRAMME OF RECITATIONS.

	SENIORS.	JUNIORS.	SOPHOMORES.	FRESHMEN.
8.		Physiology. Astronomy. I. Geology. } S. III. Philosophy.† V. Mathematics.*	II. Mathematics. I. Physics. I. Chemistry. } S. II. German.* II. French.† Logic. 2.*	I. Mathematics. 1. F. I. Latin. 1. S. I. Greek. 2. S.
9.	V. Greek.* IV. English (Literature) 2.†	Psychology. Constitution. } † I. History.*	II. Greek.† Rhetoric. Logic. 1. } *	I. Latin. 1. Tu., W., Th. I. Latin. 1. (First Term) M.† I. Mathematics. 2. M., W., Th., F. I. Mathematics. 2. (Second Term) Tu.†
10.	Practical Astronomy.† II. History.*	III. English (Literature).† II. Physics.* Zoology.*	Physical Geography. Botany. } † III. Mathematics.† Declamation. 4. Th.†	I. French.* Declamation. 1. Th.* Declamation. 2. W.†
11.	IV. English (Literature) 1.† IV. Philosophy.* IV. Chemistry.* II. Geology.†	IV. Mathematics.* IV. Greek (Biblical).* III. Greek (Classical).† Zoology.* IV. Latin.* Declamation. 2. W.† Declamation. 3. Th.†	Botany.† III. Latin.†	I. German.*
12.	Polit. Economy. Evidences. Ethics. } Tu., W., Th., F. Forensics. M.‡	Physiology. Astronomy.† I. Geology. 1.* }	II. Mathematics. † I. Physics.* I. Chemistry.† }	I. Greek. 1. M., W., Th., F. I. Greek. 1. (Third Term) Tu.† I. Latin. 2. Tu., W., Th., F. I. Latin. 2. (First Term) M.†
2.		Mineralogy.† I. Geology. 2.* Declamation. 1. Th.*	Declamation. 1. Th.† Declamation. 2. Tu.† Declamation. 3. W.*	Declamation. 3. W.† Declamation. 4. Tu.*
3.		Elocution. Tu., Th. Mineralogy.† VI. Latin.† Declamation. 4. W.*	II. Latin.* Composition.†‡ III. Mathematics. (1st term)†	I. English. F. I. English. Tu.* I. Mathematics. 1. M., W., Th. I. Mathematics. 1. (Second Term) Tu.† I. Greek. 2. M., W., Th. I. Greek. 2. (Third Term) Tu.†

GENERAL REGULATIONS.

SELECTION OF STUDIES.

In making a selection among the elective studies, the following rules are to be regarded:—

A student may take elective studies assigned to a class below his own, as well as those assigned to his own class; but not those assigned to a class above his own, except by special permission of the Faculty. The election must in all cases be made for the whole year, no changes from one department to another being permitted during the year. Studies must be selected whose hours of recitation do not conflict with each other, as indicated by the tabular statement on page 46. The student's selection must in all cases be subject to the approval of the Faculty.

In order to avoid misunderstanding, each student is required to present to the Secretary of the Faculty, on the first day of the first term, a list of the studies which he desires to take.

EXAMINATIONS.

Examinations, either oral or written, are held in all the studies of the course. The oral examinations are held near the close of the college year, and are conducted before Examining Committees appointed by the Executive Committee of the Trustees. Written examinations are held at the end of each term, and during a specified week in February, according to the times at which the respective studies are completed; but the papers are reserved for inspection by the Examining Committees. No student who has been absent from fifteen per cent. or more of the required exercises in any study, can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are

convinced that the absences have not been due to culpable negligence. In this case the instructor may require the student to pass a preliminary examination before admitting him to the regular examination.

Special examinations will be held during the third term for those who have been absent, by permission, from the regular examinations which have occurred in the previous part of the year.

A special examination will be held, commencing on the Tuesday before the beginning of the first term, for those who have failed to pass any of the examinations of the preceding year. Students who fail to pass at this examination are, in certain cases, required to attend recitations with the next class in the studies in which they are deficient, and to be examined with the class at the regular time.

A student desiring to take more than the prescribed quota of elective studies may present himself at the special examination, at the beginning of the first term, to be examined in advance in any required study, and, on showing evidence of a high degree of proficiency, he may be excused from recitation in that study.

PUBLIC WORSHIP.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city. Each student is allowed to elect what church he will attend, and is required to report such election to the Registrar at the beginning of each college year.

LEAVE OF ABSENCE.

No student is allowed to be absent from college without permission from the President.

The time appropriated to vacation is believed to be ample for the purpose of relaxation from study; and, in view of the unfavorable effect of all absences, either at the commencement or at any other period of the term, upon the standing and proficiency of the student, the Faculty earnestly request that parents and guardians will in no way encourage, or even sanction, such absences, without very urgent reasons.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:

Tuition, - - - - - - - - - -	$75 00
Room Rent, from $12.00 to $50.00; average, -	26 00
General Repairs and Incidental Expenses, - -	21 00
Use of Library and Reading Rooms, - - -	6 00
Total, - - - - - - - - - -	$128 00

Students in Practical Chemistry are charged for the use of apparatus, for chemicals, and for incidentals. This charge averages about eleven dollars a term.

A fee of five dollars a term is charged to each student in Practical Physics.

Ladies residing in the Ladies' Dormitory are charged at the rate of five dollars a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Dormitory.

A diploma fee of five dollars is charged to each student at graduation.

Persons holding *free*, *personal*, or *transferable* scholarships are exempt from charges for tuition.

The college bills are payable at the commencement of each term; to any bill not paid on presentation after one week's notice, five per cent. will be added. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town: but the places in which they room or board must in all cases be subject to the approval

of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Gentlemen rooming in the college buildings provide for themselves furniture, fuel, and lights.

Board may be obtained in private families at prices varying from $3.00 to $4.50 a week. A large majority of the students board in clubs, at prices ranging from $2.75 to $3.50 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

MATERIAL EQUIPMENT.

BUILDINGS AND GROUNDS.

The principal buildings of the College are the following:—

NORTH COLLEGE and SOUTH COLLEGE. These were erected in 1824–5, as the property of the American Literary, Scientific, and Military Academy, but were subsequently transferred to Wesleyan University, and were the only buildings belonging to the institution at the time of its incorporation in 1831. North College is the main dormitory, having accommodations for about eighty students. South College contains four lecture-rooms, and a few apartments for students.

MEMORIAL CHAPEL. This was erected in memory of those alumni and students who fell in the war for the Union. It was completed in 1871. It contains, on the upper floor, an audience room with seating capacity of about six hundred, and, on the lower floor, a smaller chapel for daily prayers, a lecture-room, and the room of the Young Men's Christian Association.

RICH HALL, or THE LIBRARY. This was the gift of Isaac Rich. It was completed in 1868. It is constructed on the alcove plan, and has shelf-room for about 80,000 volumes.

JUDD HALL, or the Orange Judd Hall of Natural Sciences. This was the gift of Orange Judd, an alumnus of the class of 1847. It was completed in 1871. It contains, on the ground floor, the chemical lecture-room and laboratory, and, on the second floor, the biological laboratory and two lecture rooms, while the upper two floors are occupied by the museum. In the basement are rooms used by the museum and chemical laboratory.

The five buildings named above are all built of brown sandstone, and stand in the order named in a row running from north to south, the campus lying to the east of them.

OBSERVATORY HALL. This is a brick building, standing on a slight elevation back of Judd Hall. In the tower on its front side is mounted

the equatorial telescope. This building also contains the physical lecture-room and laboratory, as well as rooms for about twenty students.

TRANSIT HOUSE. This is distant a few steps from Observatory Hall, and contains the transit and prime vertical instruments, with associated apparatus.

LADIES' DORMITORY. Since 1883, the house just north of the campus, which was formerly the residence of the President, has been used as a Ladies' Dormitory. It is under the charge of an efficient matron. A study room is provided here for lady students who reside elsewhere in the city.

GYMNASIUM. This is a frame building, standing a short distance back of Memorial Chapel. It is furnished with the commoner forms of gymnastic apparatus.

The grounds lying west of the college buildings have within a few years been greatly improved, and afford ample room for all forms of athletic sports.

LIBRARY AND READING ROOM.

The Library in Rich Hall contains about thirty-seven thousand volumes. The library hall is open every week day of term time, except Saturdays, from 10 A. M. to 1 P. M., and from 2 to 4 P. M.; on Saturdays, from 9 A. M. to 1 P. M. No student may take from the Library more than two books at a time, without special permission; books are loaned for two weeks, with the privilege of renewal, in the case of most books, for two weeks longer.

Books reserved by request of officers of instruction as collateral reading for students in their classes are shelved in the Library reading-room, can be taken out only at the close of library hours, and must be returned upon the opening of the Library.

The books are catalogued on cards, on the so-called dictionary plan. Direct access to the shelves is allowed to all, in order that they may secure the benefit derived from selecting and examining the books themselves. Assistance is freely given by the Library staff when called for; but it is expected that students will consult for themselves the catalogues, indexes, and other helps, and thus learn the use of literary tools.

Visitors are always welcome, and at liberty to consult the Library.

About $1,100 is spent annually for the increase of the Library.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. The second, or Library reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

The Observatory is used for purposes of instruction, and is well equipped therefor. Members of the Junior Class have frequent opportunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical Astronomy are instructed in the theory and use of all the instruments of the Observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE CHEMICAL LABORATORY occupies four rooms on the first floor of Judd Hall, with store-rooms in the basement. A large working-room furnishes places for over thirty students, and two smaller laboratories and a balance-room afford conveniences for the work of instructors and a number of advanced students.

THE BIOLOGICAL LABORATORY occupies two rooms in Judd Hall, and is capable of accommodating about fifteen students. It is equipped for the advantageous prosecution of elementary biological work, being supplied with microscopes, micrometers, water baths, warm chambers, Du Bois Reymond's induction coil, dissecting apparatus, etc., together with abundance of material for anatomical and histological study and dissection. The Laboratory has also the use of the large museum collection for comparison and direct study.

THE PHYSICAL LABORATORY is in Observatory Hall. It occupies one large room on the upper floor, and two smaller rooms,

provided with piers, on the ground floor. It can accommodate eight or ten students. It is supplied with apparatus for the illustration of most of the important principles of Physics, the following being some of the principal pieces used: Cathetometer, by Bamberg; balance, by Bunge; balance, by Becker Bros.; Geissler pump; small goniometer, seven-inch circle, by Elliott Bros.; large goniometer, by Hilger, with 18-inch circle (graduated by Troughton & Simms); diffraction gratings, by Rowland and Rutherford; diffraction bench, by Duboscq; Jolly's air thermometer; Calorimeter, by Edelmann; most of the important pieces of Koenig's acoustic apparatus; apparatus for electrical measurements, mostly of Elliott Bros.' make, including Thompson's mirror galvanometer, Thomson's quadrant and portable electrometers, sine, tangent, and astatic galvanometers, reading telescope, induction coils, conductivity apparatus, standard condenser, resistance boxes, Wheatstone's bridge, thermopiles, etc.

The Laboratory is connected with the observatory clocks, and has the use of the chronograph and spectroscopes belonging to the astronomical department.

MUSEUM.

The Museum of Natural History occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with especial reference to educational purposes, and are freely accessible to students.

The nucleus of the Departments of Zoölogy and Botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions, in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many speci-

mens of foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort Collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique.

The following is an approximate statement of the number of specimens in the various departments of the Museum:

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	150
Fishes,	2,100
Insects—pinned and alcoholic,	3,750
nests, borings, &c.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Coelentera,	1,500
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,500
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	10,000
Fossils—Paleozoic,	2,650
Mesozoic,	800
Cenozoic,	2,000

The Museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A number of Scholarships exempting the holders from the charge for Tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:

THE JOHN EVANS SCHOLARSHIP.

This Scholarship has been founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is yearly to be given to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. Only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates for this Scholarship.

THE SQUIRE SCHOLARSHIP.

This Scholarship has been founded by Watson C. Squire, B. A. The income of it, amounting to one hundred and fifty dollars, will be awarded to that member of the Senior class who shall pass the best examination in Greek, provided he pursue a course of study in Middletown, under the direction of the Faculty, for at least one year after graduation.

THE SENEY SCHOLARSHIPS.

These have been established by George I. Seney, M. A. They are forty-eight in number, and are divided among the classes equally. They will be awarded on the basis of the merit-roll, under such conditions as the founder of the Scholarships has prescribed. Their precise value for any year will depend on the income of the Scholarship Fund. For the present year they will range from fifty to one hundred and fifty-five dollars. It is stipulated by the founder of the Scholarships that no student shall be considered a candidate for any one of them who was not in attendance upon college exercises throughout the year for

which the Scholarship is awarded, nor shall any Scholarship, though awarded, be paid to one who is absent from college during the year, or during any considerable part of the year, in which it is payable. No one who is regularly employed as a preacher or teacher shall, during the year in which he is so occupied, be considered a candidate for any of these scholarships. Nor shall any student be considered as a candidate for them during any year in which he has been the subject of serious college discipline.

The Scholarships for the three lower classes will be awarded as soon after the beginning of each academic year as the record of standing for the previous year can be prepared; and will be paid in three installments:—the first, immediately upon the assignment of the Scholarships; the second, at the beginning of the second term; the third, at the beginning of the third term.

The Senior Scholarships will be awarded two weeks before Commencement, and be paid at that time in one payment.

The College assumes responsibility for the payment of the Scholarships only to the measure of the income of the Scholarship Fund.

The Seney Scholarships have been awarded on the basis of the merit-roll of the year 1887–88, to the following persons:

Class of 1888.—John Law Bridge, William Evans Bruner, Roland Wilkins Guss, Fred Alexander Hillery, Alice May Hotchkiss, Arthur Wilson James, Mary Elizabeth Smith Mendall, Kate Bertha Mitchell, George Levi Rice, Herbert Lowell Rich, Thomas Dudley Wells, Marcus White.

Class of 1889.—Dudley Chase Abbott, Fred Morgan Davenport, Bernard Marcus Davis, William Bradford Eaton, Willie Irving Ford, Mary Graham, Herbert Augustus Hill, George Frederic Kettell, Samuel Gail Landon, Harry Summerfield Noe, Arthur W. Partch, William Emory Smyser.

Class of 1890.—Edward Arthur Bawden, Martha Josephine Beach, Mary Romer Beach, John Andrew Bergström, Charles Manning Child, Clara Maria Coggshall, Lillie Belle Conn, Frederic Samuel Goodrich, James Alonzo Hulse, Wendell Phillips Parker, Hester Laurence Raymond, Edwin Sloan Tasker.

Class of 1891.—Cornelius Abrams, George Hamilton Bickford, Cyrus David Foss, Jr., Albert Elmer Hancock, John Evan Jenkins, Linnaeus Edford La Fétra, Frank Bowers Littell, Ernest Loren Meritt, Charles Harrison Page, Jr., Isaac Merwin Rayner, Arthur Willis Smith, Leon Irving Wood.

COLLEGE HONORS.

PRIZES.

The following prizes will be awarded during the present year:

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior class whose oration at Commencement shall be deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of Rhetoric on or before Tuesday, June 18th.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior class who shall excel in English Composition. The subject for the essay of 1889 is, "The Ethical and Religious Conceptions of George Eliot." The subject for the essay of 1890 is, "The Influence of Puritanism upon American National Character." The essays must be left with the Professor of Rhetoric on or before the first Monday of the third term.

The Harrington Prize will be awarded to that member of the Senior class who shall excel in History.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior class who shall write the best essay on Political Economy. The subject for the essay of 1889 is, "The Nature of Wages, and the Relation between Wages and Capital." The essays must be left with the Professor of the Department on or before the first Monday in May.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded to that member of the Senior, Junior, or Sophomore class who shall excel in Natural Science. The examination for this prize this year will be in Physiology.

The G. Brown Goode Prize, the gift of G. Brown Goode, M. A., will be given for the best Original Investigation in the Department of Natural History.

The Romig Prize, the gift of John F. Romig, Esq., and the George E. Reed Prize, the gift of Rev. George E. Reed, D. D., will be awarded as a first and second prize, respectively, to the two members

of the Junior class who shall present the best orations at the annual Junior Exhibition. In the decision of these prizes, both the composition and delivery of the orations will be considered.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior class who shall excel in English Literature.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior class who shall excel in Logic.

A Prize will be awarded to that member of the Junior class who shall excel in debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be given to that member of the Junior class who shall excel in Metaphysics.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded as a second prize for excellence in Elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore class who shall excel in Greek.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore class who shall excel in Latin.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman class who shall excel in Latin.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman class who shall excel in Declamation.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in either of the college classes, who shall write the best English poem. The poem must be left with the Professor of Rhetoric before the Senior Examination.

The designation of the classes to which the prizes are offered is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold either of these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:

The Rich Prize, to Roland Wilkins Guss.
The Olin Prize, to Thomas Dudley Wells.
The Harrington Prize, to William Morton Cassidy.
The Wise Prize, to Arthur Wilson James.
The Joseph D. Weeks Prize, to Robert Seney Ingraham.
The Peirce Prize, to Fred Morgan Davenport.
The G. Brown Goode Prize, to Aaron Louis Treadwell.
The Romig Prize, to William Emory Smyser.
The George E. Reed Prize, to Fred Morgan Davenport.
The Camp Prize, to Fred Morgan Davenport.
The Weeks Prize, to Fred Morgan Davenport.
The Prize for Debate, to John Elijah Loveland.
The David A. Walkley Prize, to Fred Morgan Davenport.
The Parker Prize, to Henry Frank Mandeville.
The Scranton Prize, to Richard Ellsworth Bell.
The Spinney Prize, to Edward Arthur Bawden.
The Phi Beta Kappa Prize, to Frederic Samuel Goodrich.
The Rice Prize, to James Alonzo Hulse.
The Sherman Prize, to Isaac Merwin Rayner.
The Hibbard Prize, to Ralph Barnes Hibbard.
The Taylor Prize, to Harry Keiser Munroe.

The Ayres Prize for the present year has been awarded to Nelson Chamberlin Hubbard.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition and at Commencement are selected according to the standing in Composition and Declamation subsequent to the Freshman year. But after the year 1889, the appointments for Commencement will be based upon the standing in Composition and Declamation after the beginning of Junior year.

The number of speakers at each of these public exercises is limited to ten. The speakers appointed last year were:

FOR THE JUNIOR EXHIBITION,—Fred Morgan Davenport, Mary Graham, John Elijah Loveland, Henry Frank Mandeville, Edward Ernest Matthews, Rowland Miles, Harry Summerfield Noe, Arthur W. Partch, William Claflin Prentice, William Emory Smyser.

FOR COMMENCEMENT,—Harry Harvey Beattys, William Morton Cassidy, Roland Wilkins Guss, Frederic Hobart Lawrence Hammond, Fred Alexander Hillery, William Barnard Smith, Thomas Dudley Wells, Marcus White.

HONORS IN SCHOLARSHIP.

1. HONORS IN GENERAL SCHOLARSHIP.—There are two grades of honor conferred at graduation, based upon the general scholarship of the student throughout his whole course. Eighty-eight per cent. of the maximum standing entitles a student to the first grade of honor, and eighty-three per cent. to the second grade.*

2. HONORS IN SPECIAL DEPARTMENTS.—Special honors are also given at graduation in each of the following departments:

Latin; Greek; Modern Languages; English; History, Political and Social Science; Philosophy; Mathematics; Physics; Chemistry; Biology; Geology.

The conditions upon which these special honors are given are as follows:

(1.) The candidate must apply to the officer of the department in which he proposes to take honors, not later than the first Monday in May of the Junior Year.

(2.) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must maintain an average standing of 83 per cent. after the beginning of his Sophomore year; provided, however, that if he maintain a standing of 88 per cent. in such of these studies as he pursues in his Junior and Senior years, the standing of the Sophomore year may be ignored.

(3.) No student shall be given special honors who shall fail to pass in any study of the last two years of the course.

(4.) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading

*The scale of marking in practical use is such that the best students in any department receive about ninety-two per cent. of the absolute maximum.

or investigation as shall be prescribed by the officer in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

(5.) In addition to other requirements, every candidate for special honors shall be required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination shall be oral, and shall be conducted in the presence of a committee of the Faculty.

(6.) No examination for special honors shall be given and no thesis or other work in preparation for special honors shall be received after the second Saturday preceding Commencement.

The following schedule gives the studies required of candidates for special honors in the several departments.

Latin.—1. The required courses, and three elective courses, in Latin, in addition to that known as the Sophomore elective.

2. The required courses in Greek, and one elective course, which shall not be that in Biblical Greek.

But students in the Latin Scientific Course, who are candidates for special honors in Latin, may substitute for the courses in Greek all the courses at present offered in Modern Languages.

Greek.—1. The required courses in Greek, and three elective courses, other than that in Biblical Greek.

2. The required courses, and one elective course, in Latin.

Modern Languages.—1. All the courses in Modern Languages.

2. The Junior elective course in English Literature.

English.—1. All the courses in English, including Composition.

2. The Junior elective course in History.

History, and Political and Social Science.—1. The required courses in Constitution and Political Economy.

2. The elective courses in History.

3. The Senior elective course in Philosophy.

Philosophy.—1. The required courses in Logic, Psychology, Ethics, Evidences.

2. The elective courses in Philosophy.

3. The Junior elective course in History.

Mathematics.—1. All the courses in Mathematics and Astronomy.

2. The required course in Mechanics.

Physics.—1. All the courses in Physics.

2. The required course in Chemistry.

3. The elective course in Qualitative Analysis, or one elective course in Mathematics.

Chemistry.—1. The required course, and three elective courses, in Chemistry.

2. The required course in Physics.

3. One elective course in Physics, or one in Practical Biology.

Geology.—1. The required courses in Geology and Physiology.

2. The elective courses in Zoölogy, and in Physical Geography and Botany.

3. The elective courses in Mineralogy and Advanced Geology.

4. The elective course in Qualitative Analysis, or one year in Practical Biology.

Biology.—1–2. Same as for Geology.

3. Two years of Practical Biology.

4. The elective course in Qualitative Analysis, or that in Physiological Chemistry.

The honors, both general and special, are stated in the diploma; and the names of students who take honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:

GENERAL SCHOLARSHIP.—*First Grade.* William Evans Bruner, Fred Alexander Hillery, Arthur Wilson James, Kate Bertha Mitchell, Marcus White.

Second Grade. Frederic Gibbs Axtell, John Law Bridge, William Morton Cassidy, Ernest Russell Deane, Roland Wilkins Guss, Frederic Hobart Lawrence Hammond, Howard Hornbeck Hawxhurst, Alice May Hotchkiss, Robert Seney Ingraham, Mary Elizabeth Smith Mendall, George Levi Rice, Herbert Lowell Rich, William Barnard Smith, Thomas Dudley Wells.

SPECIAL DEPARTMENTS.—*Greek.*—1. The Iliad and Odyssey. With Essay on The Homeric World.

To Robert Seney Ingraham.

2. Readings from Aeschylus, Sophocles, Euripides, and Aristophanes. With Essay on The Three Tragic Dramatists Compared.

To Frederick Gibbs Axtell.

3. The Oresteia. With Essay on The Religious Element in the Drama of Aeschylus.

To Mary Elizabeth Smith Mendall.

Modern Languages.—1. Lessing's Emilia Galotti, Goethe's Hermann und Dorothea, Schiller's Maria Stuart, selections from Buchheim's Deutsche Lyrik; Scherer's History of German Literature; Sime's Life of Lessing and Stahr's Life of Lessing. With Essay on The Life and Work of Lessing.

To Frederick William Lange.

2. About's Le Roi des Montagnes—eight chapters; Hugo's Le Dernier Jour d'un Condamné; Van Laun's History of French Literature; Goethe's Hermann und Dorothea; Scherer's History of German Literature.

To Charles Minot Griffith, Aaron Louis Treadwell.

English Literature.—1. The Life and Work of Shakspere, with some study of the Contemporary Drama.

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Biology.—1. Studies in the Theory of Evolution.

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To Frederick William Lange, Aaron Louis Treadwell.

DEGREES.

The following degrees are conferred by the University, in course:

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But it should be noted that the Trustees, at their annual meeting in June, 1888, voted:—

1. That after Commencement Day, 1891, the degree of M. A. be no longer conferred in course.

2. That thereafter the general condition for obtaining the degree be non-professional graduate study, either at Wesleyan or elsewhere.

The regulations concerning the nature and amount of study to be required for this degree, and the examinations to be passed upon such study, will be announced in the Catalogue for 1889–90.

At the last Commencement degrees were conferred as follows:

THE DEGREE OF B. A. was conferred on:—Frederic Gibbs Axtell, Harry Harvey Beattys, William Evans Bruner, Edward Washington Burke, Henry William Camier, William Morton Cassidy, Charles Phillips Cooper, Ernest Russell Deane, William Elliott Foster, Roland Wilkins Guss, Morton Lee Hall, George Dempster Hamlen, Frederic Hobart Lawrence Hammond, Howard Hornbeck Hawxhurst, Fred Alexander Hillery, Thomas Arthur Humason, Robert Seney Ingraham, Arthur Wilson James, William Avery Knox, Mary Elizabeth Smith Mendall, Kate Bertha Mitchell, Harry Keiser Munroe, Theophilus England Niles, Theodore Richards, William Barnard Smith, Thomas Dudley Wells.

THE DEGREE OF PH. B. was conferred on:—Harvey William Fellows, Henry Pinnie Griffin, Charles Minot Griffith, Alice May Hotchkiss, Frederick William Lange, George Levi Rice, Herbert Lowell Rich, Marcus White.

THE DEGREE OF B. S. was conferred on:—John Law Bridge, Aaron Louis Treadwell.

THE DEGREE OF M. A. was conferred in Course on:—Edward Dally Bassett, Frank Davis Beattys, George Davis Beattys, Ernest Perley Clarke, Winnie May Crook, Saul Ober Curtice, William Scott Foster, Catherine Gardner, Ida Rachel Gridley, Frank Leslie Hayward, Homer Thomas Hollingshead, James Strong Judd, Levi Oscar Kuhns, Jacob Christian Lange, Flora Elizabeth McGlauflin, William Howard Mitchell, Robert Franklyn Norton, Eveline Lovancy Rolman, Wilbur Everett Rowell, Javan Mason Russell, James Alfred Saxe, John Walter Saxe, Arthur Eugene Sutherland, William John Taggart, DeWitt Burton Thompson, John Littlefield Tilton, Frank Sumner Townsend, Frank Bourne Upham, Charles Sumner Van Deusen, Harvey Cromwell Williams, Robert Henry Williams, Frederick Shenstone Woods,—of the class of '85. Also on Thomas Almern Griffin, of the class of '81, and Paul Francis Ela, of the class of '84.

THE DEGREE OF M. A. HONORIS CAUSA, was conferred on:—Rev. George Murray Colville, of Binghamton, N. Y.; William Healey Dall, Paleontologist of the U. S. Geological Survey; Rev. Elijah Roberts Watson, Professor of Modern Languages in the University of Southern California.

THE DEGREE OF D. D. was conferred on:—Rev. Herbert Franklin Fisk, Professor in the Northwestern University; Rev. Edmund Mead Mills, of Syracuse, N. Y.; Rev. James E. C. Sawyer, of Troy, N. Y.; Rev. John Rhey Thompson, of New York City.

THE DEGREE OF LL. D. was conferred on George Brown Goode, Assistant Secretary of the Smithsonian Institution, and Curator of the National Museum.

OBITUARY RECORD.—Obituary notices of deceased graduates of the University are published annually. All persons who can supply information appropriate to the future editions of this Record, are urgently requested to communicate the same to Professor C. T. Winchester.

ALUMNI RECORD.—Through the liberality of Orange Judd, Esq., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other

information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Librarian, Mr. L. O. Kuhns. The price of the Record, when sent by mail, is two dollars and twenty-five cents.

Information in regard to changes of residence or address of Alumni or to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with the Librarian, Mr. L. O. Kuhns.

CALENDAR.

1888.

Sept. 13, Thursday—First Term commenced.
Dec. 19, Wednesday—First Term will close.

VACATION OF TWO WEEKS.

1889.

Jan. 3, Thursday—Second Term will commence.
Jan. 31, Thursday—Day of Prayer for Colleges.
April 2, Tuesday—Junior Exhibition.
April 3, Wednesday—Second Term will close.

VACATION OF ONE WEEK.

April 11, Thursday—Third Term will commence.
June 5, Wednesday—Senior Examination will commence.
June 5, Wednesday—Prize Debate and Declamation.
June 18, Tuesday—Annual Examination will commence.
June 21, Friday—Prize Declamation.
June 23, Sunday morning—Baccalaureate Sermon.
June 23, Sunday Evening—University Sermon.
June 24, Monday—Class Day.
June 25, Tuesday—Anniversaries of the Literary Societies.
June 25, Tuesday—Meeting of the Board of Trustees, at 9 o'clock, A.M.
June 25, Tuesday—Business Meeting and Anniversary of the Alumni Association.
June 25, Tuesday—Reunion of Classes of 1839, '64, '74, '79, '82 and '86.
June 26, The last Wednesday of June—COMMENCEMENT.
June 27, Thursday—Examination of candidates for admission will commence.

VACATION OF ELEVEN WEEKS.

Sept. 10. Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 11. Wednesday—Examination of candidates for admission will commence.
Sept. 12. Thursday—First Term will commence.
Dec. 18. Wednesday—First Term will close.

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CALENDAR + 1889.

JANUARY

S	-	6	13	20	27	
M	-	7	14	21	28	
T	1	8	15	22	29	
W	2	9	16	23	30	
T	3	10	17	24	31	
F	4	11	18	25	X	
S	5	12	19	26	X	

FEBRUARY

S	-	3	10	17	24	
M	-	4	11	18	25	
T	-	5	12	19	26	
W	-	6	13	20	27	
T	-	7	14	21	28	
F	1	8	15	22	X	
S	2	9	16	23	X	

MARCH

S	-	3	10	17	24	31	
M	-	4	11	18	25	X	
T	-	5	12	19	26	X	
W	-	6	13	20	27	X	
T	-	7	14	21	28	X	
F	1	8	15	22	29	X	
S	2	9	16	23	30	X	

APRIL

S	-	7	14	21	28		
M	1	8	15	22	29		
T	2	9	16	23	30		
W	3	10	17	24	X		
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F	5	12	19	26	X		
S	6	13	20	27	X		

MAY

S	-	5	12	19	26		
M	-	6	13	20	27		
T	-	7	14	21	28		
W	1	8	15	22	29		
T	2	9	16	23	30		
F	3	10	17	24	31		
S	4	11	18	25	X		

JUNE

S	-	2	9	16	23	30	
M	-	3	10	17	24	X	
T	-	4	11	18	25	X	
W	-	5	12	19	26	X	
T	-	6	13	20	27	X	
F	-	7	14	21	28	X	
S	1	8	15	22	29	X	

JULY

S	-	7	14	21	28		
M	1	8	15	22	29		
T	2	9	16	23	30		
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T	4	11	18	25	X		
F	5	12	19	26	X		
S	6	13	20	27	X		

AUGUST

S	-	4	11	18	25		
M	-	5	12	19	26		
T	-	6	13	20	27		
W	-	7	14	21	28		
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SEPTEMBER

S	1	8	15	22	29	
M	2	9	16	23	30	
T	3	10	17	24	X	
W	4	11	18	25	X	
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F	6	13	20	27	X	
S	7	14	21	28	X	

OCTOBER

S	-	6	13	20	27	
M	-	7	14	21	28	
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W	2	9	16	23	30	
T	3	10	17	24	31	
F	4	11	18	25	X	
S	5	12	19	26	X	

NOVEMBER

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M	-	4	11	18	25	
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DECEMBER

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M	2	9	16	23	30	
T	3	10	17	24	31	
W	4	11	18	25	X	
T	5	12	19	26	X	
F	6	13	20	27	X	
S	7	14	21	28	X	

1890.

JANUARY

S	-	5	12	19	26	
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W	1	8	15	22	29	
T	2	9	16	23	30	
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S	4	11	18	25	X	

FEBRUARY

S	-	2	9	16	23	
M	-	3	10	17	24	
T	-	4	11	18	25	
W	-	5	12	19	26	
T	-	6	13	20	27	
F	-	7	14	21	28	
S	1	8	15	22	X	

MARCH

S	-	2	9	16	23	30	
M	-	3	10	17	24	31	
T	-	4	11	18	25	X	
W	-	5	12	19	26	X	
T	-	6	13	20	27	X	
F	-	7	14	21	28	X	
S	1	8	15	22	29	X	

APRIL

S	-	6	13	20	27		
M	-	7	14	21	28		
T	1	8	15	22	29		
W	2	9	16	23	30		
T	3	10	17	24	X		
F	4	11	18	25	X		
S	5	12	19	26	X		

ANNUAL CATALOGUE

—OF—

WESLEYAN UNIVERSITY.

1889-90.

MIDDLETOWN, CONN.:
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SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
†Howard Townsend Alexander,	*Elizabeth, N. J.*	9 S. C.
William Wellington Alexander,	*Binghamton, N. Y.*	A. O. H.
Stockton Axson,	*Middletown.*	*106 High St.*

NAMES.	RESIDENCES.	ROOMS.
Francis Asbury Bagnall,	*Middletown.*	*44 Broad St.*
§ Charles Elmore Barto,	*Northport, N. Y.*	Δ. K. E. *House.*
Edward Arthur Bawden,	*Spring City, Pa.*	3 O. H.
Robert James Beach,	*Bridgeport.*	*96 College St.*
Jesse Leander Beers,	*Easton.*	Δ. K. E. *House.*
Richard Ellsworth Bell,	*New York, N. Y.*	*104 College St.*
John Andrew Bergström,	*Middletown.*	Δ. K. E. *House.*
Frank Chapin Bray,	*Meadville, Pa.*	*95 College St.*
§ Charles Manning Child,	*Higganum.*	X. Ψ. *Lodge.*
Gideon Wales Coons,	*Kingston, N. Y.*	10 O. H.
Richard Watson Cooper,	*Cheswold, Del.*	3 O. H.
§ Lewis Nelson Crane,	*Berlin.*	14 N. C.
Edwin Parker Currier,	*Mechanicsville, Vt.*	10 N. C.
§ Frank Burnett Dains,	*Cazenovia, N. Y.*	6 N. C.
Charles Fellows Eggleston,	*Waterbury.*	26 N. C.
Charles Jessup Foster,	*Middletown.*	*90 Court St.*
Fred Ernest Fuller,	*West Auburn, Pa.*	12 N. C.
Edgar Smith Furnel,	*Wilton, Me.*	36 N. C.
Frederick Augustus Gascoigne,	*Brooklyn, N. Y.*	30 N. C.
Frederic Samuel Goodrich,	*Waterbury.*	32 N. C.
Winfield Scott Goss,	*St. Johnsbury Center, Vt.*	8 N. C.
† James Chandler Graham,	*Middletown.*	9 O. H.
Robert Paul Green,	*Paterson, N. J.*	8 N. C.
Frederick Watson Hannan,	*Rock Hill, N. Y.*	28 N. C.
John Morgan Harris,	*Bennington, Vt.*	34 N. C.
† Samuel Boyer Harvey,	*Chaplin.*	*96 College St.*
† James Alonzo Hulse,	*Amityville, N. Y.*	X. Ψ. *Lodge.*
William Andrew Montgomery,	*Woburn, Mass.*	10 O. H.
Walter Everard Morse,	*Livermore Falls, Me.*	34 N. C.
Leonard Colburn Murdock,	*Cooperstown, N. Y.*	*4 College Place.*
Lyon Levi Norton,	*Middletown.*	*114 High St.*
§ George Howard Opdyke,	*Jersey City, N. J.*	28 N. C.
Wendell Phillips Parker,	*North Gorham, Me.*	44 N. C.
George Luther Peck,	*Yates, Pa.*	A. Δ. Φ. *House.*
† Carl Noyes Quimby,	*Laconia, N. H.*	14 N. C.
Willis Fenton Roe,	*Marcellus, N. Y.*	A. Δ. Φ. *House.*
Edwin Sloan Tasker,	*Manchester, N. H.*	18 O. H.
Wilson Wallace Thompson,	*Bridgeport.*	*5 Bailey Ave.*

NAMES.	RESIDENCES.	ROOMS.
§ John Jackson Tinker,	*Suffield.*	9 S. C.
Lewis Gardiner Westgate,	*Middletown.*	38 N. C.
John Quinby Wood,	*Brockton, Mass.*	44 N. C.
§ Anna Harris Andrews,	*Hartford.*	*120 High St.*
§ Martha Josephine Beach,	*Middletown.*	*104 William St.*
Mary Romer Beach,	*Middletown.*	*1 High St.*
§ Clara Maria Coggshall,	*West Brookfield, Mass.*	*120 High St.*
§ Lillie Belle Conn,	*Fitchburg, Mass.*	*120 High St.*
Hester Laurence Raymond,	*North Lyme.*	*120 High St.*

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
Lloyd Hawley Andrews,	*Bethel.*	29 N. C.
§ Edwin Daniel Arnold,	*Middletown. Chestnut St., So. Farms.*	
George Hamilton Bickford,	*Barton, Vt.*	29 N. C.
Frederic Elias Bragden,	*Kennebunk, Me.*	*Lincoln St.*
Wilson Fisk Brainard,	*Cobalt.*	45 N. C.
David Jacobus Carlough,	*Paterson, N. J.*	*99 Court St.*
§ Henry Archer Cleaver,	*Chesapeake City, Md.*	*19 Wyllys Ave.*
Charles Woods Coulston,	*Philadelphia, Pa.*	A. Δ. Φ. *House.*
† Waters Burrows Day,	*Morristown, N. J.*	*112 High St.*
Frank Prescott Fogg,	*Readfield, Me.*	37 N. C.
Cyrus David Foss, Jr.,	*Philadelphia, Pa.*	D O. H.
George Seymour Godard,	*North Granby.*	Δ. K. E. *House.*
† Albert Elmer Hancock,	*Philadelphia, Pa.*	A. Δ. Φ. *House.*
William Ray Heath, Jr.,	*Middletown.*	X. Ψ. *Lodge.*
§ Ralph Barnes Hibbard,	*New Britain.*	D O. H.
§ Samuel Pierson Hildreth,	*Bridgehampton, N. Y.*	*82 Church St.*
§ John Evan Jenkins,	*Shamokin, Pa.*	A O. H.
Frederick Allen King,	*Thompsonville.*	16 O. H.
Linnæus Edford La Fétra,	*Washington, D. C.*	*99 Court St.*
§ Ludwig August Lange,	*Scranton, Pa.*	19 N. C.

NAMES.	RESIDENCES.	ROOMS.
§ Frank Bowers Littell,	*Scranton, Pa.*	12 N. C.
James Henry McDonald,	*Centreville, R. I.*	Δ. K. E. *House.*
Henry Isaiah McMahon,	*Lima, N. Y.*	64 N. C.
Ernest Loren Meritt,	*West Eaton, N. Y.*	13 N. C.
John George Mitchell,	*Willimantic.*	4 N. C.
Ellis Walker Moore,	*St. Johnsbury, Vt.*	31 N. C.
† Everett Hiram Osborn,	*Center Moriches, N. Y.*	27 N. C.
Charles Harrison Page, Jr.,	*Providence, R. I.*	Δ. K. E. *House.*
George Lincoln Plimpton,	*Sturbridge, Mass.*	Δ. K. E. *House.*
Isaac Merwin Rayner,	*Greenport, N. Y.*	*8 Wyllys Ave.*
George Henry Rogers,	*S. Manchester.*	54 N. C.
† Charles Wilfred Savage,	*East Berlin.*	X. Ψ. *Lodge.*
† Henry Bloodgood Slayback,	*New York, N. Y.*	A. Δ. Φ. *House.*
Arthur Willis Smith,	*Fall River, Mass.*	X. Ψ. *Lodge.*
Harry Monmouth Smith,	*Middletown.*	*22 Pearl St.*
Clinton Chandler Stevens,	*Readfield, Me.*	X. Ψ. *Lodge.*
Edgar Jerome Thayer,	*East Blackstone, Mass.*	*8 Wyllys Ave.*
Tibbitts Walker,	*Saybrook, O.*	50 N. C.
§ Oliver Cromwell Webster,	*Liberty, N. Y.*	33 N. C.
Charles Tapley Winchester,	*Springfield, Mass.*	*82 Church St.*
§ Belle Evangeline Graves,	*Middletown.*	*120 High St.*
Ellen Mary Brainard Peck,	*Clinton.*	*120 High St.*

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
Thomas Hanlon Atkinson,	*Newark, N. J.*	48 N. C.
John Hendley Barnhart,	*Tarrytown, N. Y.*	*75 High St.*
† Lucien Samuel Bayliss,	*Brooklyn, N. Y.*	11 O. H.
Fred Warren Beekman,	*Chicopee Falls, Mass.*	12 S. C.
Howard Graham Bleakly,	*Camden, N. J.*	17 N. C.
† Charles Ridgway Blundell,	*Paterson, N. J.*	*99 Court St.*
† Arthur Peyton Bryant,	*Brookline, N. H.*	14 O. H.

NAMES.	RESIDENCES.	ROOMS.
Charles Dudley Burnes,	*Flushing, L. I.*	C O. H.
George William Carter,	*Middletown.*	*94 William St.*
Paul Campbell Cloyd,	*Brooklyn, N. Y.*	48 N. C.
Samuel James Allen Conner,	*Chicago, Ill.*	23 N. C.
Alfred Cookman,	*Philadelphia, Pa.*	A. Δ. Φ. *House.*
Albert Lyon Crowell,	*Lynn, Mass.*	16 O. H.
George Willets Davison,	*Rockville Center, N. Y.*	*112 High St.*
§ William Morgan Douglass,	*Plymouth, Mass.*	*122 College St.*
§ Charles Myron Drew,	*Minneapolis, Minn.*	*1 Wyllys Ave.*
Willard Baker Dukeshire,	*Maitland, N. S.*	52 N. C.
George Mahon Eggleston,	*Waterbury.*	26 N. C.
Herbert Charles Eldridge,	*Boston, Mass.*	52 N. C.
Elbridge Sears Fernald,	*Winterport, Me.*	Δ. K. E. *House.*
Pedro Gillot y Fernandez,	*Guantánamo, Cuba.*	35 N. C.
Frederick Hoole Floy,	*Elizabeth, N. J.*	11 S. C.
James Albert Foster,	*Middletown.*	*90 Court St.*
† Frank Albert Galloway,	*Lowville, N. Y.*	60 N. C.
Lincoln Robinson Gibbs,	*Wiscasset, Me.*	35 N. C.
Howard David Gordon,	*Hazardville.*	10 S. C.
Ralph Morgan Grant,	*Wapping.*	Δ. K. E. *House.*
§ Robert Henderson Guibord,	*Plattsburgh, N. Y.*	*112 High St.*
† William Henry Hall,	*S. Willington.*	B O. H.
Archibald Clinton Harte,	*Catasauqua, Pa.*	*104 College St.*
Theodore Sommers Henderson,	*Orange, N. J.*	*112 High St.*
Charles Stanton Hill,	*Auburn, Me.*	X. Ψ. *Lodge.*
Arthur John Holden,	*Palmer, Mass.*	*116 William St.*
Lovell James Honiss,	*East Berlin.*	X. Ψ. *Lodge.*
Nelson Chamberlin Hubbard,	*Wheeling, W. Va.*	9 O. H.
Willam Henry Kidd,	*Middletown.*	*106 William St.*
August Kullman,	*Vineland, N. J.*	*108 William St.*
William Francis Little,	*Loysburg, Pa.*	21 N. C.
Arthur Birdsey Miller,	*Middlefield.*	X. Ψ. *Lodge.*
§ Charles Allison Miller,	*Good Ground, N. Y.*	41 N. C.
Henry Winfield Millison,	*W. Philadelphia, Pa.*	41 N. C.
George Mooney,	*New York, N. Y.*	23 N. C.
Hubert Barney Munson,	*Windham, N. Y.*	Δ. K. E. *House.*
Joseph W. Naramore,	*Peekskill, N. Y.*	Δ. K. E. *House.*
Samuel Atkinson Noon,	*Gloucester, Mass.*	X. Ψ. *Lodge.*

NAMES.	RESIDENCES.	ROOMS.
Hurbert Ernest Parker,	*Norwich.*	*5 Cross St.*
§ James Stow Parshley,	*Middletown.*	47 N. C.
Clifford Ives Parshley,	*Middletown.*	47 N. C.
§ Jay William Pierce,	*Corry, Pa.*	*4 College Place.*
John Stephenson Pullman,	*New Britain.*	A. Δ. Φ. *House.*
† Fred Henry Ralsten,	*Lowville, N. Y.*	A. Δ. Φ. *House.*
Edward Loranus Rice,	*Middletown.*	*2 College Place.*
Everett Hallerton Scott,	*Rockville.*	11 S. C.
Jewsuke Shimata,	*Yamaguchi, Japan.*	58 N. C.
Jonathan Hugh Slater,	*Hensonville, N. Y.*	Δ. K. E. *House.*
§ Robert Eberle Smith,	*Mauch Chunk, Pa.*	39 N. C.
§ Frederic Halsted Tackaberry,	*New York, N. Y.*	B O. H.
§ Egbert James Tamblyn,	*Hackettstown, N. J.*	39 N. C.
Alfred Ernest Taylor,	*Gildersleeve.*	14 O. H.
Heber Ives Thayer,	*Higganum.*	Χ. Ψ. *Lodge.*
Gordon Lewis Thompson,	*Essex, N. Y.*	17 N. C.
Roger Everett Thompson,	*Franklin Falls, N. H.*	Ψ. Υ. *House.*
William Dyson Tuckey,	*Churchtown, Pa.*	*8 Wyllys Ave.*
Samuel J. Watson,	*Middletown.*	*107 William St.*
Oliver Loveland Welch,	*New York, N. Y.*	*116 William St.*
† Henry Wisner Wood, Jr.,	*Chester, N. Y.*	*112 High St.*
Lena Maud Adams,	*Wethersfield.*	*120 High St.*
Eva Dilks,	*Long Branch, N. J.*	*120 High St.*
Lillian Wainright Hart,	*New Britain.*	*120 High St.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
Winfred Chandler Akers,	*Andover, Me.*	*114 High St.*
William Loyal Andrus,	*Yonkers, N. Y.*	*4 College Place.*
Franklin Barber,	*Fort Edward, N. Y.*	25 N. C.
George Hubbard Blakeslee,	*East Greenwich, R. I.*	*93 High St.*
Elbert Wright Burr,	*Middletown.*	59 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Leland Mothershead Burr,	*Montclair, N. J.*	*99 Court St.*
Bernard Westland Butler,	*Middletown.*	*121 College St.*
§ Charles Henry Colt,	*Winsted.*	*11 Wyllys Ave.*
Frederic Cutts,	*Middletown.*	*126 Washington St.*
§ William Butler Davis,	*Middletown.*	*74 Washington St.*
Edgar Van Fossen Du Bois,	*Philadelphia, Pa.*	55 N. C.
George Nelson Edwards,	*Millington.*	50 N. C.
† William Ephraim Fairbank,	*Middletown.*	*Industrial School.*
† Albert Urney Faulkner,	*New York, N. Y.*	*4 College Place.*
§ Walter Merritt Furnel,	*Wilton, Me.*	36 N. C.
Clifford Curtis Gilbert,	*Middletown.*	*106 College St.*
§ Charles Gourlay Goodrich,	*Waterbury.*	32 N. C.
§ Lorenzo Walter Hadley,	*Frankfort, Me.*	43 N. C.
Frederick Smith Hall,	*Montclair, N. J.*	*39 Broad St.*
§ Jetur White Hand,	*Bridgehampton, N. Y.*	53 N. C.
§ Hervey Howard,	*Milford, Me.*	43 N. C.
David Hughes,	*Blackinton, Mass.*	49 N. C.
Freeman Touron Hulse,	*Bay Shore, N. Y.*	*122 College St.*
† Albert Wheeler Johnston,	*Stapleton, N. Y.*	*75 High St.*
Linwood Beede Jones,	*Winthrop, Me.*	37 N. C.
Charles Pitman Lake,	*Trenton, N. J.*	51 N. C.
Wesley Elwell Lake,	*Trenton, N. J.*	51 N. C.
James Adelbert Leach,	*Bucksport, Me.*	59 N. C.
Martin Oliver Lepley,	*New Berlin, Pa.*	*95 College St.*
Albert Emory Loveland,	*Fair Haven.*	*102 William St.*
Ralph Fernald Lowe,	*York, Me.*	
§ George Floyd Ludlow,	*Bridgehampton, N. Y.*	53 N. C.
George Henry Moore,	*St. Johnsbury, Vt.*	31 N. C.
John Orville Newton,	*Andover, Me.*	*114 High St.*
§ Lewis Johnson Norton,	*Farmington, Me.*	*114 High St.*
Frederick Curry Ostrander,	*Catskill, N. Y.*	63 N. C.
Robert Chapin Parker,	*Westfield, Mass.*	*108 William St.*
Lewis Frederick Pilcher,	*Brooklyn, N. Y.*	61 N. C.
† Arthur Isaac Powers,	*North Dana, Mass.*	63 N. C.
Royal Wilkins Raymond,	*Westport.*	11 N. C.
Jesse Lee Rollins,	*Sangerville, Me.*	*Lincoln St.*
Herbert Spencer Rooksby,	*Philadelphia, Pa.*	12 S. C.
Alfred Cooper Rowland,	*Montclair, N. J.*	*39 Broad St.*

NAMES.	RESIDENCES.	ROOMS.
Walter Earle Russell,	*Middletown.*	*114 High St.*
† Edwin Oscar Smith,	*Albany, N. Y.*	*102 William St.*
Remington Squire,	*Seattle, Washington.*	*95 College St.*
Arthur Thomas Talmadge,	*Westfield, Mass.*	49 N. C.
Harry Arthur Thompson,	*Glenolden, Pa.*	55 N. C.
Ashley Horace Thorndike,	*Providence, R. I.*	*1 Wyllys Ave.*
John Waters Waters,	*New Britain.*	X. Ψ. *Lodge.*
§ Walter Starr Watson,	*Middletown.*	*107 William St.*
Sarah Langton Abbott,	*Rochester, N. H.*	*120 High St.*
§ Clara Southmayd Davis,	*Middletown.*	*106 College St.*
Mattie Lincoln Hills,	*Middletown.*	*24 Church St.*
§ Vida Frank Moore,	*Steuben, Me.*	*120 High St.*
Mary Pembroke O'Flaherty,	*Hartford.*	*120 High St.*
Georgia Edith Pottle,	*Saco, Me.*	*120 High St.*

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
James Pike Chadbourne,	*Cambridge, Mass.*	61 N. C.
Robert Macdonald Moore, Jr.,	*Elizabeth, N. J.*	62 N. C.
George Rowland Munroe,	*Paterson, N. J.*	*3 Pearl St.*
Milbourne Munroe,	*Paterson, N. J.*	*3 Pearl St.*
Lizzie Chapin Rice,	*Middletown.*	*202 Main St.*
Nettie Louise Whitney,	*Hartford.*	*120 High St.*

SUMMARY.

GRADUATE STUDENTS,	6
SENIORS,	50
JUNIORS,	42
SOPHOMORES,	69
FRESHMEN,	57
SPECIAL STUDENTS,	6
TOTAL,	230

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, and named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course the study of Latin and Greek forms a large part of the required work of the first two years. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above Courses, all of the studies of the first year are required, except that the Classical and Latin-Scientific students have the option between French and German. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies.

In the choice of these electives, the student is advised to exercise prudence and deliberation, and especially to regulate his choice so that his electives will together form a harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

The allotment of the subjects of study in the several Courses is set forth in the following table, in which the numbers in the columns headed "Required" show approximately what percentage of the whole work of the respective Courses consists of required studies in the several departments named; while the numbers in the columns headed "Elective" show the amount of elective work offered in the respective departments, computed on the same scale.

DISTRIBUTION OF REQUIRED AND ELECTIVE STUDIES IN THE CLASSICAL, LATIN-SCIENTIFIC, AND SCIENTIFIC COURSES.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Latin,	11	24	7	28	—	—
Greek,	11	20	—	—	—	—
Hebrew,	—	8	—	8	—	8
Modern Languages,	4*	16	4*	13	13	4
Rhetoric and English Literature,	4	11	4	12	4	12
Logic, Psychology, and Ethics.	8	8	8	8	8	8
History and Political and Social Science,	5	12	5	12	5	13
Mathematics and Astronomy,	12	16	12	16	5	17
Physics,	5	16	5	17	5	17
Chemistry,	3	12	4	12	4	17
Biology,	3	15	6	12	6	13
Geology, Mineralogy, and Physical Geography,	4	10	5	8	5	8
Percentage of work required of each student in four years,	70	—	60	—	55	—
Percentage of elective work,	—	30	—	40	—	45

* Option is allowed between French and German. If these should therefore be counted as elective, the percentage of studies required in the Classical and in the Latin-Scientific Course would become 66 and 56, respectively.

The distribution of the required and elective work in each of the four years is shown in the following table:

PERCENTAGE OF REQUIRED AND ELECTIVE WORK FOR EACH YEAR IN EACH COURSE.

	CLASSICAL.		LATIN-SCIENTIFIC.		SCIENTIFIC.	
	Required.	Elective.	Required.	Elective.	Required.	Elective.
Freshman Year,	84	16*	83	17*	100	0
Sophomore "	84	16	53	47	69	31
Junior, "	53	47	53	47	17	83
Senior "	29	71	29	71	29	71

* Option between French and German, one of which is required.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments.

TERMS OF ADMISSION.

CLASSICAL COURSE.—Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN.—Candidates are examined in either of the following courses, according to their option:—

I. Cæsar,—Gallic War, books I., II.; Vergil,—Æneid, books I. to VI., inclusive, Eclogues; Ovid, the first ten selections in Allen & Greenough's Ovid (or Vergil's Georgics); Cicero,—eight orations, of which those against Catiline and for Archias and the Manilian Law shall be six; Latin Grammar, including Prosody; translation into Latin of simple English sentences and easy narratives based on the prose authors read.

Candidates are also allowed, at the option of the examiner, to substitute translation at sight from the authors specified in Course II. for some of the passages set from the authors required in Course I., and it is especially urged that systematic practice in accurate sight-reading be made a part of the preparatory training from the very first.

II. Translation at sight of passages from Cæsar, Cicero's Orations, Vergil, Ovid's Metamorphoses, Sallust, and Cornelius Nepos; Latin Grammar and Composition, as in Course I.

The Roman system of pronunciation is exclusively used in all the Latin work of the College course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *aye*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as

w in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *haphazard* and *boathook;* other consonants as in English.

It is urged that candidates shall be well drilled in the observation of quantity in oral reading, especially in Vergil and Ovid.

GREEK.—Candidates are examined in either of the following courses according to their option:—

I. Four books of Xenophon's Anabasis; three books of Homer's Iliad; Hadley-Allen's or Goodwin's Greek Grammar; simple sentences in Prose Composition.

Candidates in Course I. may substitute the translation of a prose passage at sight as the equivalent of one of the passages set for the examination in the Anabasis. It is very desirable that all candidates shall have had training in translation at sight.

II. Translation at sight of average passages from Xenophon and from the Iliad (the candidate being supplied with a vocabulary of the less usual words). Prose Composition and Grammar as in Course I.

HISTORY AND GEOGRAPHY.—History of Rome to the death of Marcus Aurelius; History of Greece to the capture of Corinth; Ancient Geography. The amount of historical knowledge required for this examination may be obtained from the following books:—Cox's or Smith's Smaller History of Greece; Leighton's History of Rome, or Allen's Short History of the Roman People. Tozer's Primer of Ancient Geography is recommended as the basis for instruction in Ancient Geography, and familiarity with map-drawing is especially desirable.

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures. 2. Algebra, through Progressions, including the use of the Binomial Formula for positive integral exponents,—so much, for example, as is contained in Wentworth's Elements of Algebra, or in the first seven books of Newcomb's Algebra for Colleges. 3. Plane Geometry,—the first five books of Chauvenet's Geometry, or their equivalent.

ENGLISH.—1. Each candidate will be required to write a short English essay upon a subject announced at the time of the examination. This essay will be expected to show a general familiarity with the works mentioned below, and will be examined with especial attention to accuracy of grammar, spelling, and punctuation. In 1890, the subject of this essay will be taken from one of the following works, candidates being required, however, to be prepared on all of

them:—Shakspere's Julius Cæsar and Midsummer Night's Dream, Coleridge's Ancient Mariner, Longfellow's Evangeline, Macaulay's Essay on Lord Clive, Thackeray's English Humorists, Webster's first Bunker Hill Oration, Scott's Quentin Durward, George Eliot's Silas Marner, Hawthorne's House of the Seven Gables.

In 1891, it will be taken from the following:—Shakspere's Julius Cæsar and Merchant of Venice, Coleridge's Ancient Mariner, Longfellow's Evangeline, Macaulay's Essay on Lord Clive, Webster's first Bunker Hill Oration, Irving's Alhambra, Scott's Old Mortality, George Eliot's Silas Marner, Hawthorne's House of the Seven Gables.

In 1892, it will be taken from the following:—Shakspere's Julius Cæsar and As You Like It, Scott's Marmion, Longfellow's Courtship of Miles Standish, Addison's Sir Roger de Coverley Papers, Macaulay's second Essay on the Earl of Chatham, Webster's first Bunker Hill Oration, Irving's Alhambra, Scott's Talisman, George Eliot's Scenes from Clerical Life, Hawthorne's House of the Seven Gables.

In 1893, it will be taken from the following:—Shakspere's Julius Cæsar and Twelfth Night, Scott's Marmion, Longfellow's Courtship of Miles Standish, Addison's Sir Roger de Coverley Papers, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Ivanhoe, Dickens' David Copperfield.

2. Each candidate will be required to criticise specimens of English given him at the time of the examination.

Two hours will be allowed for the entire examination in English.

It is recommended that teachers of Greek and Latin in preparatory schools insist upon the use of simple and idiomatic English in translation.

LATIN-SCIENTIFIC COURSE. — Candidates for the Latin-Scientific Course will be examined in all of the above subjects except Greek. Especial attention is called to the fact that Greek History and Geography are required. *They will also be examined in French or German as each candidate may elect. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight.*

SCIENTIFIC COURSE.—Candidates for the Scientific Course will be examined in the following books and subjects:—

MATHEMATICS.—Same requirements as for the Classical Course, with the addition of the following subjects:—1. Algebra—Permutations and Combinations, the Binomial Theorem for negative and fractional exponents, Continued Fractions, the Doctrine of Limits, the Nature

of Series, Indeterminate Coefficients, Fundamental Properties of Logarithms, Fundamental Properties of Equations. 2. Solid and Spherical Geometry. 3. Plane and Spherical Trigonometry, with the use of Logarithmic and Trigonometric Tables.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH OR GERMAN.—Same requirements as for the Latin-Scientific Course.

SPECIAL COURSES. — Special Students, not candidates for a degree, may be admitted, upon passing such examination as the Faculty shall in each case prescribe.

No one can be admitted to the Freshman Class under the age of fifteen years, or to an advanced standing without a corresponding increase of age.

All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

A student who has accomplished half or more of the preparatory course, may be examined on that part, and receive credit therefor. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

The regular examination for admisssion is held on the Thursday and Friday of Commencement Week. All candidates must be present at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the Fall Term.

Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1st. The time of these examinations will be Thursday and Friday of Commencement Week. But, if no applications are received before June 1st, these examinations will not be held.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

LATIN.

PROFESSOR MERRILL; MR. HARRINGTON.

I. Livy,—Books 21 and 22, with parallel readings from Polybius in translation. *Three hours a week during the first half-year.*

Horace,—Epodes, Satires, Odes, and Epistles. *Four hours a week during the second half-year.*

Exercises in Sight Translation and Prose Composition throughout the year.

Course I. is required of Classical and Latin-Scientific Freshmen.

In connection with Course I. a brief course in Roman History (V. History) is required. This course is under the supervision of Professor Wilson, but the immediate instruction is given by Mr. Harrington.

II. Plautus,—Trinummus; Terence,—Andria; Cicero,—Selected Letters; Tacitus,—Agricola and Germania. *Five hours a fortnight.*

Course II. is required of Classical Sophomores, and elective for Latin-Scientific Sophomores.

III. Livy,—Book 5; Sallust,—Catilinarian Conspiracy and Jugurthine War; Vergil,—Aeneid, Books 7–12; Exercises in Prose Composition. *Five hours a fortnight.*

The especial object of Course III. is to give instruction and practice in the rapid reading and precise and sympathetic understanding of Latin. To this end there is systematic drill in tracing the development of thought as indicated by the Latin order of words, and in understanding the language at sight and hearing without translation. The exercises in composition are conducted in harmony with this purpose.

Course III. is elective for those who have taken Course I. and who also take, or have taken, Course II.

Prospective candidates for the special honor in Latin at graduation should elect Course III. in the Sophomore year, and all others who

intend to pursue any of the higher elective courses in Latin are advised to do the same.

IV. Pliny the Younger, — Selected Letters; Tacitus, — Annals, Books 1 and 4; Tibullus,—Selected Elegies; Private readings. *Five hours a fortnight.*

Course IV. is omitted the present year.

V. Catullus; Tacitus,—Histories, Books 1–3; Ovid,—Selections; Private readings. *Five hours a fortnight.*

VI. Lucretius,—Books 1, 2, and 5; Cæsar,—Civil War; Propertius,—Selected Elegies; Private readings. *Five hours a fortnight.*

Courses IV., V., and VI. are elective for those who have taken Courses I., II., and III.

Course IV. will be given, and Courses V. and VI. will be omitted, next year.

VII. Latin Seminary. To this course of instruction and practice in methods of advanced work are admitted candidates for special honors in Latin at graduation who have already taken at least four courses in Latin, and other applicants who may be especially qualified. Semi-weekly meetings are held, lasting about two hours each, and for undergraduate members the course is counted as a half-study in making up the quota of elective studies. The subject for the first half of the next year will be a critical study of certain of the writings of Catullus, and for the second half the interpretation of selected Latin inscriptions. For the following year the subjects will be changed.

VIII. During the second half-year the Professor in charge will conduct a series of about eight conferences of an hour each on the History and Methods of Classical Study and Teaching. These conferences will be open, on application to the leader, to all persons interested, but are designed especially for those students in the advanced courses who are intending to teach Latin.

For the successful prosecution of Courses IV.–VI., a reading knowledge of easy German prose is especially desirable, and for Course VII. it is necessary. All Freshmen therefore who look forward to the study of Latin beyond the required courses, and have on admission to college no acquaintance with German, should elect German instead of French in the Freshman year.

GREEK.

PROFESSOR VAN BENSCHOTEN; MR. TAYLOR.

I. Herodotus. Special attention to Morphology and Etymology; Greek History. *Four hours a week during the first term.*

Thucydides; Syntax, with Composition. *Four hours a week during the second term.*

Homer; Prosody; Lectures on Greek language and life in Homeric literature. *Nine hours a fortnight during the third term.*

Throughout the year considerable time is given to sight-reading, and students are encouraged to read large amounts with as little use of lexicon and grammar as possible. In recitation, accuracy of translation and good English are required.

Course I. is required of Classical Freshmen.

II. Aeschines and Demosthenes on the Crown. Lectures on the Public Life of the Greeks. A course of collateral reading is required, covering Butcher's Demosthenes, Jebb's Primer of Greek Literature, and portions of Jebb's Greek Orators. *Five hours a fortnight during the first term.*

Aeschylus,—Prometheus Bound; Sophocles,—Antigone. Lectures on Greek Drama, with illustrations. The collateral reading includes Jebb's Primer of Greek Literature, and portions of Jevons' History of Greek Literature and Mahaffy's History of Greek Literature, and Haigh's Attic Theatre. *Five times a fortnight during the second term.*

Plato,—Euthypro, Apologia, Crito, Phædo. Lectures on Greek Philosophy. Rapid translation, with attention to the style and thought of the author. The collateral reading includes introductory chapters of Grote's Plato, and Zeller's Outlines of Greek Philosophy. *Five hours a fortnight during the third term.*

During Sophomore year the cultivation of the sense of style and of the ability to appreciate beauty in literature is especially aimed at.

Course II. is required of Classical Sophomores.

III. Greek Comedy,—The Frogs and the Acharnians of Aristophanes. Greek Tragedy,—Aeschylus, Sophocles, Euripides. *Five times a fortnight.*

Course III. is omitted the current year.

IV. Greek Philosophy,—Plato, Aristotle, and Xenophon; The Clouds of Aristophanes. *Five times a fortnight.*

In connection with III. and IV., fortnightly meetings are held for special studies in the Greek language and literature.

These courses are intended for those who desire a wider acquaintance with Greek literature and a more technical knowledge of grammar and the details of interpretation. They are given in alternate years, IV. being given the current year.

Courses III. and IV. are elective for those who have taken Courses I. and II.

V. Biblical Greek,—The Gospels and the Acts; Teaching of the Apostles. *Five times a fortnight.*

Course V. is omitted the current year.

VI. Biblical Greek,—The Epistles of the New Testament; The Septuagint. *Five times a fortnight.*

In connection with V. and VI., fortnightly meetings are held for special studies in methods of interpretation and in the history of the text. They are alternate courses, VI. being given the current year.

Courses V. and VI. are elective for those who have taken Courses I. and II.

VII. Pindar; Lucian; Neo-Hellenic; Readings in Pausanias, with studies on the geography and topography of Greece, and on Greek art and life. *Five times a fortnight.*

Course VII. is elective for those who have taken either III. or IV.

HEBREW.

PROFESSOR PRENTICE.

I. The class will begin with Davidson's Introductory Hebrew Grammar. Special attention will be devoted to the acquisition of the habit of prompt and accurate translation of English into Hebrew. Some ten or twelve chapters of easy Hebrew will be read first, like the story of Rebecca, the finding of Joseph, the life of Samson, David and Goliah, or Elijah the Tishbite. Constant effort will be made to secure an easy and accurate pronunciation.

The class will next read Genesis i.–ix. In connection with this reading, Mitchell's Gesenius' Hebrew Grammar will be studied with especial reference to the syntax. Then a number of psalms will be read. The prose and poetical accents must be thoroughly studied and learned. Special topics will be assigned to different members of the class to examine, and their reports will be read before the class. For reference books, the student will need the Hebrew Bible of Hahn or Stier and Theile, and the lexicon of Gesenius or Fuerst. For the study of the accentual system, the Baer-Delitzsch corrected texts of Genesis and the Psalms will be needed.

MODERN LANGUAGES.

PROFESSOR PRENTICE AND MR. KUHNS.

GERMAN.

I. Whitney's German Grammar, commencing with the lessons outlined in the preface. Whitney's German Reader. With the readings are assigned daily a part of the passages for translation into German of the first and second series in the Grammar. The sentences are put upon the black-board for criticism and correction. After the first examination, special attention is given to gaining a mastery of the irregular verbs and the rules for the gender of the nouns. *Five times a fortnight.*

II. Selections from Hart's Goethe's Prosa; Schiller's Wilhelm Tell, Buchheim's edition; Lessing's Minna Von Barnhelm, Whitney's edition; Goethe's Iphigenie auf Tauris, Carter's edition. Systematic sight-readings from Stern's Select German Comedies. Grammatical work is connected with the course of reading, special attention being paid to the sections of the Grammar which treat of the construction and order of sentences. *Five times a fortnight.*

III. Schiller's Wallenstein Trilogy; Lessing's Nathan der Weise; Goethe's Faust. Each drama is studied so as to connect it with the general literary movements of its time, as well as with the personal career of its author. Lectures are given on every play read. An attempt is made to appreciate the value of the most enlightened criticism to which these dramas have been subjected. From twenty to twenty-five other lectures will be given in this course, viz., two on Klopstock, four on Lessing, four on Herder, six on Schiller, and eight on Goethe. *Five times a fortnight.*

This course is given in alternate years, and will be omitted next year.

FRENCH.

I. Whitney's Practical French Grammar, Part I. De Maistre,—La Jeune Sibérienne; G. Sand,—La Mare au Diable; Sandeau,—Mademoiselle de la Seiglière.

Sight-readings in de Maistre,—Le Lépreux de la cité d'Aoste, and About,—Le Roi des Montagnes. *Five times a fortnight.*

II. Corneille,—Le Cid; Racine,—Andromaque; Molière,—L'Avare, Hugo,—Hernani.

Collateral readings; first half-year, one of the following books: Racine,—Britannicus; G. Sand,—La Mare au Diable; Lacombe,—

Petite Histoire du Peuple Français (first half). Second half-year, one of the following: Molière,—Le Misanthrope; Daudet,—La Belle Nivernaise; Lacombe,—Petite Histoire du Peuple Français (second half).

Sight-readings— Halévy,—L'Abbé Constantin; Rougemont,—La France. Lectures on language and literature. *Five times a fortnight.*

Of the courses outlined above, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. All Freshmen in the Classical and Latin-Scientific Courses who look forward to the study of Latin or Greek beyond the required courses and have no previous acquaintance with German, should elect German rather than French in the Freshman year. Candidates for the Latin-Scientific and Scientific Courses are examined at entrance to test their ability to read at sight easy passages in French or German as they may elect. Students in the Latin-Scientific Course are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course must, during the first two years, take either I. French, II. French, and II. German, or I. German, II. German, and II. French, according as they were examined at entrance in German or French. Aside from these restrictions, each course in either language is elective for those who have previously taken the preceding course or courses in the same language.

RHETORIC AND ENGLISH LITERATURE.

PROFESSOR WINCHESTER; MR. HARRINGTON AND MR. TAYLOR.

I. ENGLISH LANGUAGE. Trench's English Past and Present, with a short course of lectures upon the rise and early history of the language. *Once a week during the first term; once a fortnight during the second and third terms.*

ELEMENTARY RHETORIC, with frequent practical exercises. *Once a fortnight during the first term; once a week during the second and third terms.*

Course I. is required of all Freshmen.

II. RHETORIC. Genung's Practical Rhetoric. The members of the class are required to write—in addition to their regular essays—

occasional exercises illustrating and applying the principles laid down in the text-book; and they read, for criticism and discussion in the class-room, specimens of the best modern English prose. The specimens selected for such reading and criticism this year are taken from Genung's Hand-Book of Rhetorical Analysis. *Five times a fortnight during the first half-year.*

Course II. is required of all Sophomores.

III. ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's Primer of English Literature, with lectures. *Three times a fortnight.*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Knightes Tale; Shakspere's Hamlet; selections from Pope's Satires. *Once a week.*

3. A brief course of collateral reading. Every member of the class must take one of the courses named below. Schedules of the courses, with lists of books on biography and criticism, may be had in the library. Examinations on this reading are held at the end of each term. The courses for the present year are as follows:

(1.) Marlowe's Faustus and Green's Friar Bacon; Shakspere's Henry IV., Twelfth Night, Macbeth, Cymbeline, and ten sonnets; Bacon's Essays,—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost, Book I., Samson Agonistes.

(2.) Johnson's Lives of Milton, Dryden, Swift, Addison, Pope, and Gray; Milton's Comus and Paradise Lost, Book I.; Dryden's Absalom and Achitophel; Swift's Tale of a Tub, Journal to Stella, letters I.–VII., Morley's edition; Selected Essays of Addison, Clarendon Press edition; Pope's Rape of the Lock; Gray's Elegy.

(3.) Thackeray's Lectures on Swift, Addison, Steele, Prior, Gay, Pope, Sterne, and Goldsmith; Swift's Tale of a Tub, Battle of the Books, Journal to Stella, letters I.–VII., Morley's edition; Selected Essays of Addison, Clarendon Press edition; Selected Essays of Steele, Dobson's edition; Goldsmith's Deserted Village, Retaliation, and Vicar of Wakefield; Leslie Stephen's Johnson, chaps. iii., iv.

(4.) Leslie Stephen's Johnson, chaps. iii., iv.; Macaulay's Life of Johnson; Johnson's Rasselas and Vanity of Human Wishes; Cowper's Task, Book I.; Burke's Two American Speeches, Reflections on the Revolution in France,—the first half, Letter to a Noble Lord; Burns, —selected poems.

(5.) Burns,—selections; Wordsworth,—selected poem's in Arnold's edition; Shelley,—selected poems in Stopford Brooke's edition; Keats'

Hyperion, Odes, and Sonnets; Byron,—one canto of Childe Harold; Lamb,—selections from the essays of Elia; De Quincey's Recollections of Lamb and Wordsworth, Suspiria de Profundis; Shairp's Essay on Wordsworth.

Course III. is elective for those who have taken Courses I. and II.

IV. ENGLISH LITERATURE from 1830 to 1880, especially as represented in the work of Carlyle, Matthew Arnold, Tennyson, and Browning. Members of the class will read carefully the principal writings of these authors; will consider their attitude toward the leading movements in thought and in society during a half-century; and will prepare abstracts and critical studies of what they read, for discussion before the class. *Five times a fortnight.*

Course IV. is open only to those who have taken Course III.

V. ENGLISH COMPOSITION.—Every member of the Sophomore and Junior classes is required to write nine essays in the year; every Senior must write an argument for debate before his class, and either four essays or two public orations. The Sophomores meet nine times a year for general class discussion and criticism of their themes; and every member of the Junior class meets the Professor privately, once a term, for individual criticism upon his work.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. The Freshman, Sophomore, and Junior classes are required to present declamations, mostly of their own selection, fortnightly.

The classes are divided into sections of ten or twelve each, and the exercise for each section occupies one hour. Criticism is made upon personal defects, and suggestions are given with regard to vocal culture and proper courses of practice.

During the Sophomore and Junior years, occasional exercises are required to be taken from some particular author.

The work in this department is largely of a practical character, and aims to preserve and develop in each student, as far as possible, his best personal characteristics as a speaker.

II. THEORY OF ELOCUTION. The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given, and the text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation, to be delivered before the class for criticism. The purpose of the work this term is to render each student competent to judge correctly of his own expression of thought and feeling, and to intelligently criticise others. *Twice a week.*

Course II. is elective for Juniors.

HISTORY AND POLITICAL ECONOMY.

PROFESSOR WILSON.

I. HISTORIES OF ENGLAND AND FRANCE. A course of topical lectures in which English and French topics are made to run, as nearly as possible, parallel to each other chronologically, with the double object of affording clues to general European history and of setting the history of the English race in its European connections. Fifteen or sixteen lectures on the Renaissance and Reformation are also included in this course, being introduced when the topics in English and French history have been advanced to the fifteenth century. Required parallel reading is assigned, and frequent recitations are held upon the subject matter of the lectures. *Five times a fortnight.*

Course I. is elective for Juniors, in alternate years, alternating with Course II. It is omitted the present year.

II. HISTORY OF THE UNITED STATES. This course will consist, in the first term, of class drill in the colonial portion of Doyle's History of the United States, in Fiske's Critical Period of American History, in Johnston's History of American Politics, and in collateral authorities; in the second and third terms, of lectures on the history of the sixty years beginning with the administration of Andrew Jackson and closing with the administration of Cleveland and the end of the first century of the Constitution. *Five times a fortnight.*

Course II. is elective for Juniors, in alternate years, alternating with Course I.

III. HISTORY OF INSTITUTIONS. The central aim of this course is to put the development of the political institutions and of the politics of the United States in its true historical setting. It covers such topics as the following: The origin and development of government; ancient political systems; mediæval political organization; the constitutional growth of the leading European states, and the chief features of their constitutions; the governments of England and the United States; the functions and aims of government; the nature and development of law, etc. Wilson's The State is used as a text-book. Parallel readings are assigned and frequent oral and written examinations are held. *Five times a fortnight.*

Course III. is elective for Seniors.

IV. CONSTITUTION OF THE UNITED STATES. Cooley's Principles of Constitutional Law is used as a text-book in the legal aspects of the fundamental law of the Union; but the object of the instruction is to familiarize the class with all the main aspects of our constitution, both state and federal, unwritten developments, practical questions, legislative machinery, etc. For this purpose various commentaries of different grades are more or less used, and supplementary lectures are given. *Five times a fortnight during the second half-year.*

Course IV. is required of Juniors.

V. POLITICAL ECONOMY AND STATISTICS. F. A. Walker's Advanced Political Economy is used as a text-book, and lectures are given on the history of economic thought. The work in political economy is supplemented by a brief course in the general principles of statistics. *Four times a week during the first half-year.*

Course V. is required of Seniors.

VI. ROMAN HISTORY. A required course in the early constitutional history of Rome is given by the Tutor in Latin to Classical and Latin-Scientific Freshmen. Ihne's Early Rome is used as a text-book, and is supplemented by lectures and by discussions of special topics. *Weekly through the first half-year.*

VII. GREEK HISTORY. A brief course of instruction in Greek history is given the Classical Freshmen by the Tutor in Greek.

PHILOSOPHY.

PROFESSOR ARMSTRONG.

I. LOGIC. Jevons-Hill's Elements of Logic. The aim of this course is to ground the student in the fundamental forms of reasoned

thinking, deductive and inductive alike. Logic is viewed not merely as a preliminary philosophical discipline, but as preparatory to all later and more advanced work. The study of the text-book is emphasized by numerous examples in logical praxis. *Five times a fortnight during the second half-year.*

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology, with references to McCosh's Psychology, Ladd's Elements of Physiological Psychology and other authorities. Instruction is not confined to the text-book, but lectures and discussions are used to explain and supplement it. These are employed especially in illustration of the more recent psychological investigations and of positions still under debate. *Five times a fortnight during the first half-year.*

Course II. is required of Juniors.

III. LOGIC AND PHILOSOPHY. Stuckenberg's Introduction to the Study of Philosophy, Mill's System of Logic, Schwegler's History of Philosophy, with lectures and discussions. About two-thirds of the year are devoted to a consideration of (a) the philosophic, (b) the scientific view of the world. In the latter part of the year the history of philosophy is commenced, with special reference to the ancient systems. *Five times a fortnight.*

Course III. is elective for Juniors.

IV. HISTORY OF MODERN PHILOSOPHY. Schwegler's History of Philosophy is used as the basis for an outline course in the development of philosophic thought. Lectures are introduced to amplify the discussions given in the text-book, and selections from the philosophical classics are studied as integral parts of the course. *Five times a fortnight.*

Course IV. is elective for Seniors.

ETHICS AND EVIDENCES OF CHRISTIANITY.

PRESIDENT RAYMOND.

I. EVIDENCES OF CHRISTIANITY. The aim of the course is to study the topics most vitally related to the subject of Christian Evidences, from several points of view. Fisher's Grounds of Theistic and Christian Belief is used as an outline for the course of work. This is supplemented by Row's Manual of Christian Evidences, in which the whole argument revolves around the personality of Christ.

To this is added a course of lectures by the President, designed to treat the same subject from the Biblical point of view. *Twice a week during the first half-year.*

Course I. is required of Seniors.

II. ETHICS. Porter's Elements of Moral Science. The instruction in this subject is conducted by recitations and class-room discussions. The former part of the course is given to theoretical ethics, with a somewhat extended treatment of the psychology of conscience and of the several theories of moral obligation. The progress of ethical inquiry is explained in connection with the history and criticism of the leading British schools. The remainder of the course is devoted to practical ethics. *Twice a week during the second half-year.*

Course II. is required of Seniors.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. JAMES; MR. E. B. VAN VLECK.

I. SOLID GEOMETRY. Chauvenet's Elementary Geometry. *Four times a week during the first third of the year.*

ALGEBRA. Hall and Knight's Higher Algebra. *Nine times a fortnight during the second third of the year.*

TRIGONOMETRY, with applications to Surveying and Navigation. Wheeler's Trigonometry; Newcomb's Logarithmic Tables. *Four times a week during the last third of the year.*

Course I. is required of Classical and Latin-Scientific Freshmen.

II. ANALYTICAL GEOMETRY,—elementary course. Wentworth's Analytic Geometry. *Three times a week during the first term.*

Course II. is required of Classical and Latin-Scientific Sophomores and Scientific Freshmen.

III. ANALYTICAL GEOMETRY,—advanced course, preceded by a short course on Determinants. C. Smith's Conic Sections; Aldis' Solid Geometry, *Five times a fortnight during the first half-year.*

DIFFERENTIAL CALCULUS. Williamson's Differential Calculus. *Five times a fortnight during the second half-year.*

Course III. is elective for Classical and Latin-Scientific Sophomores, and for Scientific Freshmen.

IV. DIFFERENTIAL AND INTEGRAL CALCULUS,—elementary course. Taylor's Treatise on Differential and Integral Calculus. *Five times a fortnight.*

Course IV. is elective for those who have taken Courses I. and II.

V. DIFFERENTIAL AND INTEGRAL CALCULUS,—in continuation of Course III. Williamson's Treatises on Differential and Integral Calculus. *Five times a fortnight.*

Course V. is elective for those who have taken Course III.

VI. ANALYTICAL MECHANICS. Based on Minchin's Statics, Vol. I., and Williamson and Tarleton's Dynamics. *Five times a fortnight.*

Course VI. is elective for those who have taken Courses III. and V.

VII. ASTRONOMY,—a general course, requiring only elementary mathematics. Young's Text-Book of General Astronomy. *Three times a week during the first term, and twice a week during the second term.*

Course VII. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

VIII. PRACTICAL ASTRONOMY. Chauvenet's Spherical and Practical Astronomy; American Ephemeris and Nautical Almanac. *Five times a fortnight, with practical exercises in the Observatory.*

Course VIII. is open to those Classical and Latin-Scientific Seniors and Scientific Juniors who have taken Course III. or Course IV.

In addition to the foregoing, Professor Van Vleck and Mr. James will assist candidates for honors and graduate students in their mathematical reading, meeting them at such times as may be determined by mutual agreement. The book chosen for the current year is Burnside and Panton's Theory of Equations.

Furthermore, an elementary course in Modern Geometry is conducted by Mr. E. B. Van Vleck, the class meeting once a week. This course is open to Freshmen.

PHYSICS.

PROFESSOR CRAWFORD.

I. ELEMENTARY PHYSICS. The first half of the course is devoted to Mechanics, Hydrostatics, and Pneumatics, with Lodge's Elementary Mechanics as text-book. The second half consists of lectures on Sound, Light, Heat, and Electricity, following Stewart's Elementary Physics as an outline. *Three times a week during the first term, six times a week during nine weeks of the second term.*

Course I. is required of Classical and Latin-Scientific Sophomores, and Scientific Freshmen.

II. SOUND AND LIGHT. A course of lectures on Sound and Light, including an elementary mathematical discussion of the theory of Harmonic Motions. *Five times a fortnight.*

Course II. is omitted the present year.

III. ELECTRICITY AND HEAT. A course on Electricity and Heat, with Thompson's Electricity and Magnetism and Stewart's Heat as text-books, supplemented by lectures. *Five times a fortnight.*

Courses II. and III. are elective for those who have taken Course I. They are given in alternate years, Course III. being given the current year.

IV. PRACTICAL PHYSICS. The work of this course is variable. A list of experiments, with appropriate references, has been prepared, covering not only the quantitative experiments described in such manuals as those of Kohlrausch, Glazebrook and Shaw, and Stewart and Gee, but also a wide range of simpler qualitative work. From this list experiments are assigned to each student according to his taste and skill, as well as the time which he purposes to devote to the study of Physics, and the use which he expects to make of his knowledge of the subject. *Those who take this course must work at least two and a half hours consecutively in the laboratory five times a fortnight.*

Course IV. is elective for those who have taken Course I.

V. PRACTICAL PHYSICS. A continuation of the Junior laboratory course, requiring the same amount of time.

Course V. is elective for those who have taken Course IV.

CHEMISTRY.

PROFESSOR ATWATER; DR. BRADLEY.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. The exercises consist of lectures and laboratory practice, with occasional recitations, chiefly written. Remsen's Introduction to Chemistry was used the last year, as giving very convenient descriptions of experiments. Each student performs the larger number of the experiments given in such a book, and numerous others. *Six times a week during the last twelve weeks of the year.*

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. QUALITATIVE ANALYSIS. It is assumed that Course I. will give sufficient drill in the principles of the science and in laboratory practice to enable the student to work understandingly in qualitative analysis, to which the first year's elective work in the laboratory is, in most cases, devoted. Each exercise occupies at least two and a half hours. Opportunity for spending a longer time in the laboratory is offered to all and utilized by a considerable number of the students. The usual course of preliminary study of reactions and subsequent analysis of complex substances is pursued. Comparatively little use is made of tables or text-books of qualitative analysis except such as the students prepare for themselves on the basis of their own observations, with the aid, of course, of oral explanations and lectures. *Five times a fortnight.*

Course II. is elective for those who have taken Course I.

III. QUANTITATIVE ANALYSIS. This is usually taken up at the beginning of the second year's work in the laboratory. After a series of general exercises for practice, the students are encouraged to enter upon special work, such as seems desirable in each case. Those who propose to study medicine, for instance, engage in the preparation and determination of the proximate compounds of the body, or in other work, qualitative as well as quantitative, in physiological chemistry. *Required time the same as for Course II.*

Course III. is elective for those who have taken Course II.

IV. ADVANCED CHEMISTRY, ORGANIC, THEORETICAL, AND PHYSIOLOGICAL. The exercises in this course consist of laboratory work, lectures, and recitations, and include also readings and essays upon special topics. The class meets the instructor in a less formal manner than is usual in other subjects. The course is somewhat flexible, and the attempt is made to adapt it to the special wants of the class. It is usually taken after Course II., and in connection with Course III. The following special topics are assigned for the current college year:—1. Condensation products of the Aldehydes. 2. Conditions of acidity in organic compounds. 3. Heats of combustion of organic compounds, including experiments with the calorimeter. *Five times a fortnight.*

Course IV. is elective for those who have taken Course I.

V. For students in the Scientific Course who desire to pursue the study of Chemistry beyond the limits of Courses I.–IV., further work is provided.

Candidates for special honors in Chemistry pursue special lines of study and laboratory work cognate with those in Course IV.

EXPERIMENT STATION. As stated in more detail in Bulletins, the chemical investigations of the Storrs Agricultural Experiment Station, of which Professor Atwater is Director, are carried on in the chemical laboratory.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. Leconte's Compend of Geology is used as a text-book, and is supplemented by lectures. The problems of dynamical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. Illustrations of geological principles are taken, so far as practicable, from localities in the immediate vicinity of Middletown; and occasional excursions are arranged to give a knowledge of local geology, and to teach the student how to observe geological phenomena in general. *Twice a week during the second term, and six times a week during the third term.*

Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. ADVANCED GEOLOGY. During the greater part of the year, informal and conversational recitations in Leconte's Elements of Geology are held five times a fortnight. This part of the course is intended to give the student a more complete and comprehensive knowledge of the general principles of the science than can be gained in the required course. The subject of paleontology, especially, is treated much more fully than is possible in the required course. Besides the lessons in the text-book, special topics for study, with references to authorities, are from time to time assigned to each member of the class. Lectures on these topics are given by the members of the class, and are criticised and discussed. Frequent excursions afford opportunity for practice in observation in the field. In each excursion, one member of the class is appointed to present a report on the phenomena observed, in the form of a lecture to the class at its next meeting. After the completion of the work in the text-book and the collateral lectures, the remainder of the year is occupied in the more detailed study of special topics assigned to individual students, or to groups of students. According to the nature of the topic, the materials of research may be found in the library, the museum and laboratory, or the field. The instructor gives to each student such guidance and

assistance as may be practicable or desirable. Groups of students engaged on the same topic or on closely related topics meet from time to time to hear and discuss the reports of each other's work.

Course II. is elective for those who have taken Course I.; but it is very desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoölogy, and Mineralogy.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, with Geikie's Elementary Lessons as text-book. *Five times a fortnight during the first term.*

Course III. is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

IV. MINERALOGY. This course comprises three parts, each occupying approximately one term:—1, a course of lectures on crystallography, with practical exercises in the study of crystallographic models and of crystals; 2, a course of laboratory work in determinative mineralogy, and a brief course of lectures on optical mineralogy; 3, a course of lectures on descriptive mineralogy. The lectures on descriptive mineralogy are given in the Museum, so that the characteristics of each important mineral can be illustrated by a full suite of specimens. The works of Dana and Brush are used for reference. *Five times a fortnight.*

Course IV. is elective for Classical and Latin-Scientific Juniors, and for Scientific Sophomores.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. The object of the course is to give the student a general knowledge of the functions of the various organs of the body in their normal condition. The origin, distribution, and final transformations of the energy of the body are treated in accordance with the doctrine of the conservation of energy. Enough anatomy is given to render the physiological discussions intelligible, and enough of hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures. *Three times a week during the first term, and twice a week during the second term.*

Course I. is required of Classical and Latin-Scientific Juniors, and Scientific Sophomores.

II. BOTANY. Gray's Lessons, accompanied by lectures upon subjects not treated in the text-book. Both lessons and lectures are illustrated, as far as possible, by specimens, especial attention being given to microscopic structure. As soon as the season allows, in the spring, the class-room exercises are replaced by laboratory work, and the rest of the time until Commencement is spent in practical laboratory work, including analysis and description of plants, and the study of structural botany. *Five times a fortnight during the second and third terms.*

Course II. is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

III. ZOŌLOGY. Lectures, recitations, and class dissections. This course is designed to give the student a knowledge of the phenomena connected with life in general. Typical examples, illustrating the various groups of the animal kingdom, are described, and dissected by the class, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Five times a fortnight.*

Course III. is elective for Classical Juniors, and for Latin-Scientific and Scientific Sophomores.

IV. PRACTICAL BIOLOGY. The Practical Biology courses are very elastic. Being laboratory courses under personal direction, there is opportunity for a wide amount of variation to suit individual needs. The design of these courses is to furnish opportunity for special advanced biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mold, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, various principles of biology, comparative anatomy, and embryology.

Those electing this course must spend at least two and a half hours consecutively in the laboratory five times a fortnight.

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY. The second year is devoted to experiments in physiology, and to the study of histology, bacteriology, embryology, and mammalian anatomy. For part of the course, outside reading may be substituted upon such subjects as seem most desirable for each student, or, in particular cases, special and irregular work may be assigned. *Time required same as in IV.*

Course V. is elective for those who have taken Course IV.

Courses IV. and V. are open to only a limited number of students.

Tabular Statement of the Courses of Study.

The Arabic numerals indicate approximately the whole number of exercises for the year in the respective studies. Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the Courses of Instruction in that department. A brace enclosing the names of two or more studies indicates that these studies jointly extend through the year, the time being divided between them.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	140	I. Mathematics,	140
I. Greek,	140	I. English,	50

ELECTIVE.

(One to be chosen.)

I. French,	85	I. German,	85

SOPHOMORE YEAR.

REQUIRED.

II. Latin,	85	Analytical Geometry,	40
II. Greek,	85	I. Physics,	95
Rhetoric,	45	I. Chemistry,	70
Logic,	40		

ELECTIVE.

(One to be chosen.)

III. Latin,	85	II. German,	85
III. Mathematics,	85	Botany,	50
II. French,	85	Physical Geography,	35

JUNIOR YEAR.

REQUIRED.

Astronomy,	65	Psychology,	45
I. Geology,	75	Constitution of U. S.,	40
Physiology,	65		

ELECTIVE.

(Three to be chosen.)

IV. Mathematics,	85	I. (or II.) History,	85
V. Mathematics,	85	III. Philosophy,	85
II. (or III.) Physics,	85	IV. (or V.) Latin,	85
IV. Physics (Practical),	85	VI. Latin,	85
II. Chemistry (Practical),	85	VII. Latin,	70
IV. Biology (Practical),	85	III. (or IV.) Greek (Classical),	85
Zoölogy,	85	V. (or VI.) Greek (Biblical),	85
Mineralogy,	85	III. German,	85
III. English (Literature),	85	Hebrew,	170
Elocution,	70		

SENIOR YEAR.

REQUIRED.

Ethics,	30
Christian Evidences,	30
Political Economy,	65

ELECTIVE.

(Four to be chosen.)

Analytical Mechanics,	80	II. Geology,	80
Practical Astronomy,	80	IV. Philosophy,	80
V. Physics (Practical),	80	III. History,	80
III. Chemistry (Practical),	80	IV. English (Literature),	80
IV. Chemistry,	80	VII. Greek,	80
V. Biology (Practical),	80		

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	140	Botany,	50
I. Mathematics,	140	Physical Geography,	35
I. English,	50		

ELECTIVE.

(One to be chosen.)

I. French,	85	I. German,	85
II. French,	85	II. German,	85

SOPHOMORE YEAR.

REQUIRED.

Analytical Geometry,	40	Rhetoric,	45
I. Physics,	95	Logic,	40
I. Chemistry,	70		

ELECTIVE.

(Three to be chosen.)

III. Mathematics,	85	III. Latin,	85
II. Latin,	85	Zoölogy,	85

JUNIOR YEAR.

Same as in the Classical Course, with the omission of the electives in Greek.

SENIOR YEAR.

Same as in the Classical Course, with the omission of the elective in Greek.

SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

Analytical Geometry,	40	I. English,	50
I. Physics,	95	Botany,	50
I. Chemistry,	70	Physical Geography,	35
I. German,	85	or I. French,	85
II. French,	85	or II. German,	85

Students must take the first two, or the second two, of the above courses in Modern Languages, according as they have passed in the French or the German required for admission. In the former case they must take II. German, in the latter case, II. French, in Sophomore year.

NOTE.—Those who desire to elect III. Mathematics may do so by postponing one of the courses of Freshman year.

SOPHOMORE YEAR.

REQUIRED.

Astronomy,	65	Rhetoric,	45
I. Geology,	75	Logic,	40
Physiology,	65		

ELECTIVE.

(Two to be chosen, besides either II. French or II. German.)

III. Mathematics,	85	II. Chemistry (Practical),	85
IV. Mathematics,	85	Mineralogy,	85
V. Mathematics,	85	Zoölogy,	85
II. (or III.) Physics,	85	III. German,	85
IV. Physics (Practical),	85		

NOTE.—The Course V. Mathematics is open only to those who have taken III. Mathematics in Freshman year.

JUNIOR YEAR.

REQUIRED.

Psychology, }	45
Constitution of U. S., }	40

ELECTIVE.

(Five to be chosen.)

V. Physics (Practical),	85	II. Geology,	80
III. Chemistry (Practical),	85	III. English (Literature),	85
IV. Chemistry,	80	Elocution,	70
IV. Biology (Practical),	85	I. (or II.) History,	85
Practical Astronomy,	80	III. Philosophy,	85
Analytical Mechanics,	80		

SENIOR YEAR.

REQUIRED.

Same as in the Classical Course.

ELECTIVE.

(Four to be chosen.)

V. Biology (Practical),	80	III. History,	80
V. Chemistry,	80	IV. English (Literature),	80
IV. Philosophy,	80		

In addition to the courses indicated in the foregoing tabular statement, exercises in English composition and public speaking are required of all the classes, as specified on page 33.

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on page 50. In that table each study is assigned to that year to which it belongs in the Classical Course. Exercises which occur on

alternate days are denoted by the signs * and †. Of these half-studies, those which are marked with the same sign occur on the same days; those marked with different signs occur on alternate days. It will be observed that recitations in half-studies assigned to the same hour will interfere with each other only when they are marked with the same sign. Letters following the names of studies indicate the days of the week on which certain exercises occur. Letters in connection with the sign * or † indicate that an exercise occurs on the day mentioned in those weeks only in which other exercises marked with the same sign occur on that day. The sign ‡ indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Arabic numerals following the names of certain studies indicate the sections into which the classes are divided. Roman numerals are used to distinguish different courses in the same department, having the same significance here as in the above statements of the Courses of Instruction.

The Chemical Laboratory is open for students in Practical Chemistry, on the days denoted by a *, from 2 P. M. till 6 P. M.; the Biological Laboratory and the Physical Laboratory are open for students in Practical Biology and Practical Physics respectively, on the days denoted by a †, from 2 P. M. till 5 P. M. Each student electing either of these studies is required to spend at least two and a half hours consecutively in the Laboratory.

PROGRAMME OF RECITATIONS.

SENIORS.	JUNIORS.	SOPHOMORES.	FRESHMEN.
8. Polit. Econ. (1st half-year), S. VIII. Astronomy.* VII. Greek.*	Physiology. VII. Astronomy. } S. I. Geology. I. Geology. 2. IV. Greek.† IV. Mathematics.†	II. Mathematics. I. Physics. } S. I. Chemistry. II. German.* II. French.†	I. Latin. 1. S. I. Mathematics. 1. W. I. Greek. 2. S.
9. II. Geology.† III. History.* IV. English. 1.†	Psychology. Constitution. } † VI. Greek.* Mineralogy.*	II. Greek.† II. Rhetoric. } * I. Logic.	I. Latin. 1. M., W., Th. I. Latin. 1. (1st term) Tu.† I. Mathematics. 2. M., Tu., W., Th. I. Mathematics. 2. (2d term) F.†
10. Analytical Mechanics.†	Mineralogy.* III. English.† III. Physics.* II. History.* Zoology.*	Physical Geography. Botany. } † III. Mathematics.† Declamation. 3. W.* Declamation. 4. Th.†	I. French.* Declamation. 1. Th.* Declamation. 2. W.†
11. IV. Chemistry.* IV. Philosophy.* IV. English. 2.†	III. German.† Zoology.* VII. Latin.* III. Philosophy.† V. Mathematics.* Declamation. 2. W.†	Botany.† III. Latin.† II. Mathematics. 2. I. Physics. 2.	I. German.*
12. Evidences, Ethics. } W., Th. Polit. Econ. (1st half-year), M., Tu., F. Forensics.‡	Physiology.* VII. Astronomy.† } I. Geology. 1.	II. Mathematics. 1. } I. Physics. 1. } I. Chemistry. }	I. Greek. 1. M., Tu., Th., F. I. Greek. 1. (3d term) W.† I. Latin. 2. M., W., Th., F. I. Latin. 2. (1st term) Tu.†
2.	Declamation. 1. Th.* Declamation. 3. Th.†	Declamation. 1. W.* Declamation. 2. Tu.†	Declamation. 3. W.† Declamation. 4. Tu.*
3.	Hebrew. Elocution. Tu., Th. V. Latin.† Declamation. 4. W.*	II. Latin.* Composition.†‡	I. Mathematics. 1. M., Tu., Th. I. Mathematics. 1. (2d term) F.† I. Greek. 2. M., Tu., Th. I. Greek. 2. (3d term) F.† I. English. W. I. English. F.*

GENERAL REGULATIONS.

SELECTION OF STUDIES.

In making a selection among the elective studies, the following rules are to be regarded:—

A student may take elective studies assigned to a class below his own, as well as those assigned to his own class; but not those assigned to a class above his own, except by special permission of the Faculty. The election must in all cases be made for the whole year, no changes from one department to another being permitted during the year. Studies must be selected whose hours of recitation do not conflict with each other, as indicated by the tabular statement on page 50. The student's selection must in all cases be subject to the approval of the Faculty.

In order to avoid misunderstanding, each student is required to present to the Secretary of the Faculty, on the first day of the first term, a list of the studies which he desires to take.

EXAMINATIONS.

Examinations, either oral or written, are held in all the studies of the course. The oral examinations are held near the close of the college year, and are conducted before Examining Committees appointed by the Executive Committee of the Trustees. Written examinations are held at the end of each term, and during a specified week in February, according to the times at which the respective studies are completed; but the papers are reserved for inspection by the Examining Committee. No student who has been absent from fifteen per cent or more of the required exercises in any study, can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In

this case the instructor may require the student to pass a preliminary examination before admitting him to the regular examination.

Special examinations will be held during the third term for those who have been absent, by permission, from the regular examinations which have occurred in the previous part of the year.

A special examination will be held, commencing on the Tuesday before the beginning of the first term, for those who have failed to pass any of the examinations of the preceding year. Students who fail to pass at this examination are, in certain cases, required to attend recitations with the next class in the studies in which they are deficient, and to be examined with the class at the regular time.

A student desiring to take more than the prescribed quota of elective studies may present himself at the special examination, at the beginning of the first term, to be examined in advance in any required study, and, on showing evidence of a high degree of proficiency, he may be excused from recitation in that study.

PUBLIC WORSHIP.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city. Each student is allowed to elect what church he will attend, and is required to report such election to the Registrar at the beginning of each college year.

LEAVE OF ABSENCE.

No student is allowed to be absent from college without permission from the President.

The time appropriated to vacation is believed to be ample for the purpose of relaxation from study; and, in view of the unfavorable effect of all absences, either at the commencement or at any other period of the term, upon the standing and proficiency of the student, the Faculty earnestly request that parents and guardians will in no way encourage, or even sanction, such absences, without very urgent reasons.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition, - - - - - - - - - -	$75 00
Room Rent, from $12.00 to $50.00; average, -	26 00
General Repairs and Incidental Expenses, - -	21 00
Use of Library and Reading Rooms, - - -	6 00
Total, - - - - - - - - - -	$128 00

Students in Practical Chemistry are charged for the use of apparatus, for chemicals, and for incidentals. This charge averages about eleven dollars a term.

A fee of five dollars a term is charged to each student in Practical Physics.

Ladies residing in the Ladies' Dormitory are charged at the rate of five dollars, or five dollars and a half, a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Dormitory.

A diploma fee of five dollars is charged to each student at graduation.

Persons holding *free*, *personal* or *transferable* scholarships are exempt from charges for tuition.

The college bills are payable at the commencement of each term; to any bill not paid on presentation after one week's notice, five per cent will be added. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board must in all cases be subject to the approval

of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Gentlemen rooming in the college buildings provide for themselves furniture, fuel, and lights.

Board may be obtained in private families at prices varying from $3.00 to $4.50 a week. A large majority of the students board in clubs, at prices ranging from $2.75 to $3.50 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

MATERIAL EQUIPMENT.

BUILDINGS AND GROUNDS.

The principal buildings of the College are the following:—

NORTH COLLEGE and SOUTH COLLEGE. These were erected in 1824–5, as the property of the American Literary, Scientific, and Military Academy, but were subsequently transferred to Wesleyan University, and were the only buildings belonging to the institution at the time of its incorporation in 1831. North College is the main dormitory, having accommodations for about eighty students. South College contains four lecture-rooms, and a few apartments for students.

MEMORIAL CHAPEL. This was erected in memory of those alumni and students who fell in the war for the Union. It was completed in 1871. It contains, on the upper floor, an audience-room with seating capacity of about six hundred, and, on the lower floor, a smaller chapel for daily prayers, a lecture-room, and the room of the Young Men's Christian Association.

RICH HALL, or THE LIBRARY. This was the gift of Isaac Rich. It was completed in 1868. It is constructed on the alcove plan, and has shelf-room for about 80,000 volumes.

JUDD HALL, or the Orange Judd Hall of Natural Sciences. This was the gift of Orange Judd, an alumnus of the class of 1847. It was completed in 1871. It contains, on the ground floor, the chemical lecture-room and laboratory, and, on the second floor, the biological laboratory and two lecture-rooms, while the upper two floors are occupied by the museum. In the basement are rooms used by the museum and chemical laboratory.

The five buildings named above are all built of brown sandstone, and stand in the order named in a row running from north to south, the campus lying to the east of them.

OBSERVATORY HALL. This is a brick building, standing on a slight elevation back of Judd Hall. In the tower on its front side is

mounted the equatorial telescope. This building also contains the physical lecture-room and laboratory, as well as rooms for about twenty students.

TRANSIT HOUSE. This is distant a few steps from Observatory Hall, and contains the transit and prime vertical instruments, with associated apparatus.

LADIES' DORMITORY. Since 1883, the house just north of the campus, which was formerly the residence of the President, has been used as a Ladies' Dormitory. This has been returned to its former use, and a fine property located on High street, directly opposite the campus, has been purchased and fitted up for them. It is under the charge of an efficient matron. A study-room is provided here for lady students who reside elsewhere in the city.

GYMNASIUM. This is a frame building, standing a short distance back of Memorial Chapel. It is furnished with the commoner forms of gymnastic apparatus.

The grounds lying west of the college buildings have within a few years been greatly improved, and afford ample room for all forms of athletic sports.

LIBRARY AND READING ROOM.

The Library in Rich Hall contains about thirty-seven thousand volumes. The library hall is open every week-day of term time, except Saturdays, from 10 A. M. to 1 P. M., and from 2.30 to 4.30 P. M.; on Saturdays, from 9 A. M. to 1 P. M. No student may take from the Library more than two books at a time, without special permission; books are loaned for two weeks, with the privilege of renewal, in the case of most books, for two weeks longer.

Books reserved by request of officers of instruction as collateral reading for students in their classes are shelved in the Library reading-room, can be taken out only at the close of library hours, and must be returned upon the opening of the Library.

The books are catalogued on cards, on the so-called dictionary plan. Direct access to the shelves is allowed to all, in order that they may secure the benefit derived from selecting and examining the books themselves. Assistance is freely given by the Library staff when called for; but it is expected that students will consult for themselves the catalogues, indexes, and other helps, and thus learn the use of literary tools.

Visitors are always welcome, and at liberty to consult the Library.

About $1,100 is spent annually for the increase of the Library.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. The second, or Library reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

The Observatory is used for purposes of instruction, and is well equipped therefor. Members of the Junior class have frequent opportunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical Astronomy are instructed in the theory and use of all the instruments in the Observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE CHEMICAL LABORATORY occupies four rooms on the first floor of Judd Hall, with store-rooms in the basement. A large working-room furnishes places for over thirty students, and two smaller laboratories and a balance-room afford conveniences for the work of instructors and a number of advanced students.

THE BIOLOGICAL LABORATORY occupies two rooms in Judd Hall, and is capable of accommodating about fifteen students. It is equipped for the advantageous prosecution of elementary biological work, being supplied with microscopes, micrometers, water-baths, warm chambers, Du Bois Reymond's induction coil, dissecting apparatus, etc., together with abundance of material for anatomical and histological study and dissection. The Laboratory has also the use of the large museum collection for comparison and direct study.

THE PHYSICAL LABORATORY is in Observatory Hall. It occupies one large room on the upper floor, and two smaller rooms, provided with piers, on the ground floor. It can accommodate eight or ten students. It is supplied with apparatus for the illustration of most of the important principles of Physics, the following being some of the principal pieces used: Cathetometer, by Bamberg; balance, by Bunge; balance, by Becker Bros.; reversion pendulum, by Société Genevoise; Geissler pump; small goniometer, seven-inch circle, by Elliott Bros.; large goniometer, by Hilger, with 18-inch circle (graduated by Troughton & Simms); diffraction gratings, by Rowland and Rutherford; diffraction bench, by Duboscq; Jolly's air thermometer; calorimeter, by Edelmann; most of the important pieces of Koenig's accoustic apparatus; apparatus for electrical measurements, mostly of Elliott Bros.' make, including Thomson's mirror galvanometer, Thomson's quadrant and portable electrometers, sine, tangent, and astatic galvanometers, induction coils, conductivity apparatus, standard condenser, resistance boxes, earth inductor, Clark's cell, thermopiles, etc.

The Laboratory is connected with the observatory clocks, and has the use of the chronograph and spectroscopes belonging to the astronomical department.

MUSEUM.

The Museum of Natural History occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to educational purposes, and are freely accessible to students.

The nucleus of the Departments of Zoölogy and Botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions, in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort Collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique.

The following is an approximate statement of the number of specimens in the various departments of the Museum:

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	150
Fishes,	2,100
Insects—pinned and alcoholic,	3,800
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Cœlentera,	1,500
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,600
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	10,200
Fossils—Paleozoic,	2,650
Mesozoic,	800
Cenozoic,	2,000

The Museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A number of Scholarships exempting the holders from the charge for Tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:

THE JOHN EVANS SCHOLARSHIP.

This Scholarship has been founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is yearly to be given to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. Only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates for this Scholarship.

THE SQUIRE SCHOLARSHIP.

This Scholarship has been founded by Hon. Watson C. Squire, B. A. The income of it, amounting to one hundred and fifty dollars, will be awarded to that member of the Senior class who shall pass the best examination in Greek, provided he pursue a course of study in Middletown, under the direction of the Faculty, for at least one year after graduation.

THE SENEY SCHOLARSHIPS.

These have been established by George I. Seney, M. A. They are forty-eight in number, and are divided among the classes equally. They will be awarded on the basis of the merit-roll, under such conditions as the founder of the Scholarships has prescribed. Their precise value for any year will depend on the income of the Scholarship Fund. For the present year they will range from fifty to one hundred and fifty-five dollars. It is stipulated by the founder of the Scholarships that no student shall be considered a candidate for any

one of them who was not in attendance upon college exercises throughout the year for which the Scholarship is awarded, nor shall any Scholarship, though awarded, be paid to one who is absent from college during the year, or during any considerable part of the year, in which it is payable. No one who is regularly employed as a preacher or teacher shall, during the year in which he is so occupied, be considered a candidate for any of these Scholarships. Nor shall any student be considered as a candidate for them during any year in which he has been the subject of serious college discipline.

The Scholarships for the three lower classes will be awarded as soon after the beginning of each academic year as the record of standing for the previous year can be prepared; and will be paid in three installments:—the first, immediately upon the assignment of the Scholarships; the second, at the beginning of the second term; the third, at the beginning of the third term.

The Senior Scholarships will be awarded two weeks before Commencement, and be paid at that time in one payment.

The College assumes responsibility for the payment of the Scholarships only to the measure of the income of the Scholarship Fund.

The Seney Scholarships have been awarded on the basis of the merit-roll of the year 1888–89, to the following persons:—

Class of 1889.—Dudley Chase Abbott, Edward Everett Abercrombie, Arthur Newell Burke, Henry Havens Chatfield, Fred Morgan Davenport, Bernard Marcus Davis, William Bradford Eaton, Willie Irving Ford, Mary Graham, Harry Summerfield Noe, Arthur W. Partch, William Emory Smyser.

Class of 1890.—Francis Asbury Bagnall, Edward Arthur Bawden, Martha Josephine Beach, John Andrew Bergström, Charles Manning Child, Clara Maria Coggshall, Lillie Belle Conn, Charles Fellows Eggleston, Frederic Samuel Goodrich, James Alonzo Hulse, Wendell Phillips Parker, Lewis Gardiner Westgate.

Class of 1891.—George Hamilton Bickford, Charles Woods Coulston, Cyrus David Foss, Jr., Belle Evangeline Graves, Albert Elmer Hancock, John Evan Jenkins, Linnæus Edford La Fétra, Ernest Loren Merritt, John George Mitchell, Isaac Merwin Rayner, Charles Wilfred Savage, Tibbitts Walker.

Class of 1892.—Lena Maud Adams, Arthur Peyton Bryant, George Willets Davison, Charles Myron Drew, George Mahon Eggleston, Lincoln Robinson Gibbs, William Henry Kidd, William Francis Little, Arthur Birdsey Miller, Charles Allison Miller, Jay William Pierce, Edward Loranus Rice.

COLLEGE HONORS.

PRIZES.

The following prizes will be awarded during the present year:—

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior class whose oration at Commencement shall be deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of Rhetoric on or before Tuesday, June 17th.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior class who shall excel in English Composition. The subject for the essay of 1890 is, "The Influence of Puritanism upon American National Character." The subject for the essay of 1891 is, "The Relations of Art to Morality." The essays must be left with the Professor of Rhetoric on or before the first Monday of the third term.

The Harrington Prize will be awarded to that member of the Senior class who shall excel in History. It will be given in 1890 upon a special examination in the history course marked III. in the present catalogue, page 35.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior class who shall write the best essay on Political Economy. The subject for the essay of 1890 is, "The Nature of Wages, with especial reference to the relations between Wages and Profits." The essays must be left with the Professor of the Department on or before the first Monday in May.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded to that member of the Senior, Junior, or Sophomore class

who shall excel in Natural Science. The examination for this prize this year will be in Chemistry.

The G. Brown Goode Prize, the gift of G. Brown Goode, M. A., will be given for the best Original Investigation in the Department of Natural History.

Two prizes will be awarded as a first and second prize, respectively, to the two members of the Junior class who shall present the best orations at the annual Junior Exhibition. In the decision of these prizes, both the composition and the delivery of the orations will be considered.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior class who shall excel in English Literature.

The Weeks prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior class who shall excel in Logic.

A prize will be awarded to that member of the Junior class who shall excel in debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be given to that member of the Junior class who shall excel in Psychology.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded, in the same classes, as a second prize for excellence in Elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore class who shall excel in Greek.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore class who shall excel in Latin.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman class who shall excel in Greek.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman class who shall excel in Declamation.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in either of the college classes, who shall write the best English poem. The poem must be left with the Professor of Rhetoric before the Senior Examination.

The designation of the classes to which the prizes are offered is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold either of these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:

The Rich Prize, to Fred Morgan Davenport.

The Olin Prize, to Mary Graham.

The Harrington Prize, to Arthur W. Partch.

The Wise Prize, to Fred Morgan Davenport.

The Joseph D. Weeks Prize, to Mary Graham.

The Peirce Prize, to Lillie Belle Conn.

The G. Brown Goode Prize, to William Bradford Eaton.

The Romig Prize, to Eugene Allen Noble.

The George E. Reed Prize, to Wendell Phillips Parker.

The Camp Prize, to Martha Josephine Beach and Frederic Samuel Goodrich.

The Weeks Prize, to Edward Arthur Bawden.

The Prize for Debate, to Edgar Smith Furnel.

The David A. Walkley Prize, to John Andrew Bergström.

The Parker Prize, to Wilson Wallace Thompson.

The Scranton Prize, to Richard Ellsworth Bell.

The Spinney Prize, to Ernest Loren Meritt.

The Phi Beta Kappa Prize, to Isaac Merwin Rayner.

The Rice Prize, to Frank Bowers Littell.

The Sherman Prize, to Edward Loranus Rice.

The Hibbard Prize, to Albert Lyon Crowell.

The Ayres Prize for the present year has been awarded to Linwood Beede Jones.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to the standing in Composition and Declamation subsequent to the Freshman year. The speakers at Commencement are selected according to the standing in Composition and Declamation after the beginning of the Junior year. The number of speakers at each of these public exercises is limited to ten. The speakers appointed last year were:—

FOR THE JUNIOR EXHIBITION,—William Wellington Alexander, Francis Asbury Bagnall, Edward Arthur Bawden, Richard Ellsworth Bell, Edgar Smith Furnel, Frederic Samuel Goodrich, Walter Everard Morse, Eugene Allen Noble, Wendell Phillips Parker, Edwin Sloan Tasker, Lewis Gardiner Westgate.

FOR COMMENCEMENT,—Fred Morgan Davenport, Mary Graham, George Frederic Kettell, John Elijah Loveland, Henry Frank Mandeville, Rowland Miles, Harry Summerfield Noe, Arthur W. Partch, William Claflin Prentice, Frank Rollins, William Emory Smyser.

HONORS IN SCHOLARSHIP.

1. HONORS IN GENERAL SCHOLARSHIP.—There are two grades of honor conferred at graduation, based upon the general scholarship of the student throughout his whole course. Eighty-eight per cent of the maximum standing entitles a student to the first grade of honor, and eighty-three per cent to the second grade.*

2. HONORS IN SPECIAL DEPARTMENTS.—Special honors are also given at graduation in each of the following departments:

Latin; Greek; Modern Languages; English; History, Political and Social Science; Philosophy; Mathematics; Physics; Chemistry; Biology; Geology.

The conditions upon which these special honors are given are as follows:

(1.) The candidate must apply to the officer of the department in which he proposes to take honors, not later than the first Monday in May in the Junior Year.

*The scale of marking in practical use is such that the best students in any department receive about ninety-two per cent of the absolute maximum.

(2.) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must maintain an average standing of 83 per cent after the beginning of his Sophomore year; provided, however, that if he maintain a standing of 88 per cent in such of these studies as he pursues in his Junior and Senior years, the standing of the Sophomore year may be ignored.

(3.) No student shall be given special honors who shall fail to pass in any study of the last two years of the course.

(4.) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading or investigation as shall be prescribed by the officer in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

(5.) In addition to other requirements, every candidate for special honors shall be required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination shall be oral, and shall be conducted in the presence of a committee of the Faculty.

(6.) No examination for special honors shall be given, and no thesis or other work in preparation for special honors shall be received, after the second Saturday preceding Commencement.

The following schedule gives the studies required of candidates for special honors in the several departments:

Latin.—1. In Latin, (*a*) Courses I.–III. inclusive, (*b*) of Courses IV.–VI. at least one, (*c*) Course VII. pursued with change of subjects for two successive years.

2. In Greek, the required courses, and one elective course, which shall not be that in Biblical Greek.

But students in the Latin-Scientific Course, who are candidates for the special honor in Latin, may substitute for the courses in Greek all the courses at present offered in Modern Languages.

Candidates who pursue satisfactorily the above-mentioned courses may be awarded the special honor in Latin without submitting to further tests. It will be noted that under these conditions prospective applicants for the special honor should elect III. Latin in the Sophomore year.

Greek.—1. The required courses in Greek, and three elective courses, other than that in Biblical Greek.

2. The required courses, and one elective course, in Latin.

Modern Languages.—1. All the courses in Modern Languages.

2. The Junior elective course in English Literature.

English.—1. All the courses in English, including Composition.

2. The elective course in English History.

History, and Political and Social Science.—1. The required courses in Constitution and Political Economy.

2. The elective courses in History.

3. The Senior elective course in Philosophy.

Philosophy.—1. The required courses in Logic, Psychology, Ethics, Evidences.

2. The elective courses in Philosophy.

3. The elective course in English History.

Mathematics.—1. All the courses in Mathematics and Astronomy except Course IV.

2. The required course in Mechanics.

Physics.—1. All the courses in Physics.

2. The required course in Chemistry.

3. The elective course in Qualitative Analysis, or one elective course in Mathematics.

Chemistry.—1. The required course, and three elective courses, in Chemistry.

2. The required course in Physics.

3. One elective course in Physics, or one in Practical Biology.

Geology.—1. The required courses in Geology and Physiology.

2. The elective courses in Zoölogy, and in Physical Geography and Botany.

3. The elective courses in Mineralogy and Advanced Geology.

4. The elective course in Qualitative Analysis, or one year in Practical Biology.

Biology.—1–2. Same as for Geology.

3. Two years of Practical Biology.

4. The elective course in Qualitative Analysis, or that in Physiological Chemistry.

The honors, both general and special, are stated in the diploma; and the names of students who take honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:

GENERAL SCHOLARSHIP.—*First Grade.* Fred Morgan Davenport, Mary Graham.

Second Grade. Dudley Chase Abbott, Edward Everett Abercrombie, Arthur Newell Burke, Henry Havens Chatfield, Bernard Marcus Davis, Willie Irving Ford, Herbert Augustus Hill, George Frederic Kettell, Samuel Gail Landon, Harry Summerfield Noe, Arthur W. Partch, William Emory Smyser.

SPECIAL DEPARTMENTS.—*Modern Languages.* About's Le Roi des Montagnes; Hugo's Le Dernier Jour d'un Condamné; Corneille's Le Cid; La Littérature Française au dix-septième Siècle, by Paul Albert, with Essay on the Life and Work of Corneille, to Henry Havens Chatfield.

English Literature.—The Life and Work of Shakspere, with some Study of the Contemporary Drama.

(*a*) With Essay on the Ethical Quality of Shakspere's Work.

To Thomas Roy Crooks, Mary Graham.

(*b*) With Essay on Woman in Shakspere.

To Arthur W. Partch.

Philosophy.—1. The Development of Utilitarianism in England, with Critical Essay.

To George Frederic Kettell.

2. The Ethics of Evolution, with Critical Essay.

To Mary Graham.

Biology.—1. Studies and laboratory work on the subject of Bacteriology, with a thesis on the bacteria of Middletown drinking water.

To William Bradford Eaton.

2. Foster's Text-Book of Physiology.

To Orville Edson Johnson.

DEGREES.

The following degrees are conferred by the University, in course:

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies,

and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

MASTER OF ARTS AND MASTER OF SCIENCE.—Until Commencement Day, 1891, the degree of Master of Arts may be conferred on any Bachelor of Arts, of three years' standing or more, who has been engaged since graduation in some literary occupation. Persons who intend to take this degree must apply to the President as early as the Monday preceding Commencement, and advance the usual fee.

After 1891, the degrees of Master of Arts and Master of Science will be conferred in accordance with the following regulations adopted by the Trustees at their annual meeting in June, 1889:—

1. The degree of Master of Arts may be conferred upon Bachelors of Arts of Wesleyan University of at least one year's standing at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for the period of not less than one year. Said course of study shall be under the full direction of a Committee of the Faculty on Graduate Instruction, to be composed of three permanent members with the addition of the instructor in charge of each department in which the candidate shall pursue work. Evidence of the candidate's proficiency in the approved studies shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the Committee may prescribe. All such tests of proficiency shall be under the direction of the Committee, and they shall report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who shall pass such additional examinations as the Committee may prescribe, the degree of Master of Arts may be conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University.

3. The degree of Master of Arts may also be conferred upon Bachelors of Arts of Wesleyan University of at least three years' standing at the satisfactory conclusion of a course of advanced, non-professional study pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations shall hold in the case of non-

resident as in the case of resident students. The degree may also be conferred upon Bachelors of Arts of Wesleyan University of two years' standing at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate shall have spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science may be conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions that govern in the case of the degree of Master of Arts.

5. A fee of ten dollars shall be required from each graduate student upon promotion to the Master's degree.

In accordance with the above regulations, the Faculty have appointed Professors Rice, Wilson, and Merrill permanent members of the Committee on Graduate Instruction, and to them, or to the head of any one of the departments of instruction, may be addressed communications from prospective graduate students.

At the last Commencement degrees were conferred as follows:

THE DEGREE OF B. A. was conferred on:—Dudley Chase Abbott, Edward Everett Abercrombie, Arthur Newell Burke, Seward Vincent Coffin, Thomas Roy Crooks, Fred Morgan Davenport, Bernard Marcus Davis, Julius Wilbur Eggleston, Henry Floy, Willie Irving Ford, George Washington Gardiner, Jr., Mark Willson Gill, Herbert Augustus Hill, George Mead Hughes, Samuel Gail Landon, Seymour Landon, John Elijah Loveland, Henry Frank Mandeville, Edward Ernest Matthews, Arthur Herbert Meritt, Harry Summerfield Noe, Arthur W. Partch, William Claflin Prentice, Frank Rollins, William Emory Smyser, Jared Sweet Tillinghast, Everett Hustis Travis.

THE DEGREE OF PH. B. was conferred on:—Henry Havens Chatfield, Elizabeth Arbuckle Craig, William Bradford Eaton, Frederic Beauregard Faber, George W. Meek Glenn, Mary Graham, Orville Edson Johnson, Percy Lincoln Johnson, George Frederic Kettell, George Elbert Manchester, Charles Perley Tinker, Willard Ives Warriner.

THE DEGREE OF B. S. was conferred on:—William Lawrence Clarke, Rowland Miles, Alfred Northam Wright.

THE DEGREE OF M. A. was conferred in Course on:—Bertha Bass, Edward Lynn Blaine, Charles Wesley Blakeslee, George Copeland Boswell, Frank Russ Bouton, Walter Perley Buck, Clinton De Witt Burdick, Acton Theophilus Civill, Henry Fitch Clark, John Cheeseman Clark, Julius Carl Converse, Wilbur Fisk Dales, Michael Joseph

Donahoe, Herbert Elmer Drake, Edgar Alfred Emens, William Barker Gwinnell, George Fletcher Illman, William Henry Lindemuth, Elmer Francis Marsh, Lillie Blanche Mathewson, John Calvin Packard, George Avery Rich, Charles Scott, Jr., Jeremiah Malachy Sheehan, Charles Henry Stackpole, Cyrus John Strong, Edward Cooke Strout, James Monroe Taber, Jr., George Phelps Wardell, Frank Edwin Williams, William Henry Woodbury, Jr.,—of the class of '86; also on Stephen Spurgeon Abbott, of the class of '85; Elmer Truesdell Merrill, of the class of '81; Charles Edward Green, of the class of '79; and William Wallace Martin, of the class of '74.

THE DEGREE OF M. A., HONORIS CAUSA, was conferred on Rev. Orange Walter Scott.

THE DEGREE OF D. D. was conferred on:—Rev. Francis Durbin Blakeslee, of East Greenwich, R. I.; Rev. Ensign McChesney, of New York City; Rev. George Preston Mains, of Brooklyn, N. Y.; Rev. Watson Lyman Phillips, of Wilkesbarre, Pa.

THE DEGREE OF LL. D. was conferred on William Waugh Smith, President of Randolph Macon College.

OBITUARY RECORD.—Obituary notices of deceased graduates of the University are published annually. All persons who can supply information appropriate to the future editions of this Record, are urgently requested to communicate the same to Professor C. T. Winchester.

ALUMNI RECORD.—Through the liberality of Orange Judd, Esq., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Librarian, Mr. L. O. Kuhns. The price of the Record, when sent by mail, is two dollars and twenty-five cents.

Information in regard to changes of residence or address of Alumni, or to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with the Librarian, Mr. L. O. Kuhns.

CALENDAR.

1889.

Sept. 12, Thursday—First Term commenced.
Dec. 18, Wednesday—First Term will close.

VACATION OF TWO WEEKS.

1890.

Jan. 2, Thursday—Second Term will commence.
Jan. 30, Thursday—Day of Prayer for Colleges.
Feb. 10, Monday—Mid-year Examinations will begin.
April 1, Tuesday—Junior Exhibition.
April 2, Wednesday—Second Term will close.

VACATION OF ONE WEEK.

April 10, Thursday—Third Term will commence.
June 4, Wednesday—Senior Examination will commence.
June 4, Wednesday—Prize Debate and Declamation.
June 17, Tuesday—Annual Examination will commence.
June 20, Friday—Prize Declamation.
June 22, Sunday Morning—Baccalaureate Sermon.
June 22, Sunday Evening—University Sermon.
June 23, Monday—Class Day.
June 24, Tuesday—Anniversaries of the Literary Societies.
June 24, Tuesday—Meeting of the Board of Trustees, at 9 o'clock A. M.
June 24, Tuesday—Business Meeting and Anniversary of the Alumni Association.
June 24, Tuesday—Reunion of Classes of 1840, '65, '75, '80, '83 and '87.
June 25, The last Wednesday of June—COMMENCEMENT.
June 26, Thursday—Examination of candidates for admission will commence.

VACATION OF ELEVEN WEEKS.

Sept. 9, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 10, Wednesday—Examination of candidates for admission will commence.
Sept. 11, Thursday—First Term will commence.
Dec. 23, Tuesday—First Term will close.

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CALENDAR, 1890

JANUARY

S	M	T	W	T	F	S
-	-	-	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	X

FEBRUARY

S	M	T	W	T	F	S
-	-	-	-	-	-	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	X

MARCH

S	M	T	W	T	F	S
-	-	-	-	-	-	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	X	X	X	X	X

APRIL

S	M	T	W	T	F	S
-	-	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	X	X	X

MAY

S	M	T	W	T	F	S
-	-	-	-	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JUNE

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	X	X	X	X	X

JULY

S	M	T	W	T	F	S
-	-	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	X	X

AUGUST

S	M	T	W	T	F	S
-	-	-	-	-	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	X	X	X	X	X	X

SEPTEMBER

S	M	T	W	T	F	S
-	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	X	X	X	X

OCTOBER

S	M	T	W	T	F	S
-	-	-	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	X

NOVEMBER

S	M	T	W	T	F	S
-	-	-	-	-	-	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	X	X	X	X	X	X

DECEMBER

S	M	T	W	T	F	S
-	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	X	X	X

1891

JANUARY

S	M	T	W	T	F	S
-	-	-	-	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FEBRUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

MARCH

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	X	X	X	X

APRIL

S	M	T	W	T	F	S
-	-	-	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	X	X

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1890-91.

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1890.

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NAMES.	RESIDENCES.	ROOMS.
Winfred Chandler Akers,	*Andover, Me.*	*46 Wyllys Ave.*
William Loyal Andrus,	*Yonkers, N. Y.*	*238 High St.*
Franklin Barber,	*Fort Edward, N. Y.*	25 N. C.
George Hubbard Blakeslee,	*East Greenwich, R. I.*	*31 College Pl.*
† Leland Mothershead Burr,	*Montclair, N. J.*	*269 Court St.*
Bernard Westland Butler,	*Middletown.*	*287 College St.*
§ Charles Henry Colt,	*Winsted.*	*58 Wyllys Ave.*
Frederic Cutts,	*Middletown.*	*276 Washington St.*
§ William Butler Davis,	*Middletown.*	*182 Washington St.*
Edgar Van Fossen Du Bois,	*Philadelphia, Pa.*	*248 High St.*
George Nelson Edwards,	*East Haddam.*	48 N. C.
† William Ephraim Fairbank,	*Middletown.*	*Industrial School.*
Clifford Curtis Gilbert,	*Middletown.*	45 N. C.
§ Charles Gourlay Goodrich,	*Waterbury.*	31 N. C.
§ Lorenzo Walter Hadley,	*Frankfort, Me.*	43 N. C.
Frederick Smith Hall,	*Montclair, N. J.*	*238 High St.*
§ Jetur White Hand,	*Bridgehampton, N. Y.*	48 N. C.
§ Hervey Howard,	*Milford, Me.*	43 N. C.
David Hughes,	*Blackinton, Mass.*	B. Θ. Π. *House.*
Freeman Touron Hulse,	*Bay Shore, N. Y.*	*288 College St.*
† Albert Wheeler Johnston,	*Stapleton, N. Y.*	*171 High St.*
Linwood Beede Jones,	*Winthrop, Me.*	*231 College St.*
Charles Pitman Lake,	*Trenton, N. J.*	35 N. C.
Wesley Elwell Lake,	*Trenton, N. J.*	35 N. C.

NAMES.	RESIDENCES.	ROOMS.
James Adelbert Leach,	*Bucksport, Me.*	33 N. C.
Martin Oliver Lepley,	*New Berlin, Pa.*	*238 High St.*
Albert Emory Loveland,	*Fair Haven.*	45 N. C.
Ralph Fernald Lowe,	*York, Me.*	52 N. C.
§ George Floyd Ludlow,	*Bridgehampton, N. Y.*	13 N. C.
George Henry Moore,	*St. Johnsbury, Vt.*	38 N. C.
John Orville Newton,	*Andover, Me.*	*46 Wyllys Ave.*
Charles Edward North,	*Montclair, N. J.*	10 S. C.
§ Lewis Johnson Norton,	*Farmington, Me.*	31 N. C.
Frederick Curry Ostrander,	*Catskill, N. Y.*	B. Θ. Π. *House.*
Robert Chapin Parker,	*Westfield, Mass.*	*296 William St.*
† Arthur Isaac Powers,	*North Dana, Mass.*	B. Θ. Π. *House.*
Royal Wilkins Raymond,	*Westport.*	Δ. K. E. *House.*
Jesse Lee Rollins,	*Dexter, Me.*	*256 High St.*
Walter Earle Russell,	*Middletown.*	*46 Wyllys Ave.*
† Edwin Oscar Smith,	*Albany, N. Y.*	*58 Wyllys Ave.*
Remington Squire,	*Seattle, Washington.*	A. Δ. Φ. *House.*
Arthur Thomas Talmadge,	*Westfield, Mass.*	37 N. C.
Harry Arthur Thompson,	*Glenolden, Pa.*	*231 College St.*
Ashley Horace Thorndike,	*Providence, R. I.*	16 O. H.
John Watson Waters,	*Bridgeport.*	X. Ψ. *Lodge.*
§ Walter Starr Watson,	*Middletown.*	*295 William St.*
Sarah Langton Abbott,	*Rochester, N. H.*	*274 High St.*
§ Clara Southmayd Davis,	*Middletown.*	*252 College St.*
Mattie Lincoln Hills,	*Middletown.*	*64 Church St.*
§ Vida Frank Moore,	*Steuben, Me.*	*274 High St.*
Maud Eliza Muzzy,	*Searsmont, Me.*	*274 High St.*
Mary Pembroke O'Flaherty,	*Hartford.*	*274 High St.*
Georgia Eaton Pottle,	*Saccarappa, Me.*	*274 High St.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
§ Julian Aznar,	*Merida, Mexico.*	28 N. C.
James Gordon Baldwin,	*Middletown.*	*41 Broad St.*
Ernest Bawden,	*Spring City, Pa.*	47 N. C.
Charles Augustus Bidwell,	*Middletown.*	*171 Broad St.*
Benjamin Robert Briggs,	*Rochester, N. Y.*	6 N. C.
† Daniel Dorrance Bronson,	*Lowville, N. Y.*	61 N. C.
Ernest Charles Carpenter,	*Bridgewater Corners, Vt.*	39 N. C.
Edwin Foster Chase,	*San Diego, Cal.*	28 N. C.
Joseph Edgar Crocker,	*St. Albans, Me.*	*256 High St.*
Charles Wesley Delano,	*Worcester, Mass.*	53 N. C.
John Payson Drake,	*Bristol, N. H.*	55 N. C.
Francis Cruger Edgerton,	*Middletown.*	*88 Washington St.*
§ Theodore Gustavus Eiswald,	*Atlanta, Ga.*	*22 Wyllys Ave.*
Abraham Howry Espenshade,	*Gordonville, Pa.*	19 N. C.
† Willie Merrill Esten,	*Glendale, R. I.*	*246 High St.*
William Wright Fisher,	*Drawbridge, Del.*	*22 Wyllys Ave.*
William Henry Fitz Gerald,	*Middletown.*	*50 Washington St.*
Robert Moses French,	*Kingston, N. H.*	Χ. Ψ. *Lodge.*
Edwin Henry Fretz,	*Chalfont, Pa.*	Δ. K. E. *House.*
Frederic Worthen Frost,	*Franklin Falls, N. H.*	62 N. C.
Arthur Mathews Gates,	*Niantic.*	50 N. C.
*† Blanchard Thomas Glover,	*Middletown.*	
Lewis Edward Gordon,	*Hazardville.*	49 N. C.
Roscoe Allan Grant,	*Montpelier, Vt.*	42 N. C.
Leslie Campbell Greeley,	*Franklin Falls, N. H.*	62 N. C.
§ Joseph Hubbard Hefflon,	*New Haven.*	58 N. C.
† Rupert Henry Hopkins,	*Miller's Place, N. Y.*	54 N. C.
Frank Miller Horr,	*West Somerville, Mass.*	53 N. C.
Arthur Leolin Howe,	*Gardner, Mass.*	55 N. C.
Charles Chase Hurlbut,	*Plainfield, N. J.*	*88 Wyllys Ave.*
Theodore Horace Jameson,	*Honeoye Falls, N. Y.*	*88 Wyllys Ave.*
§ George Oglevie Jarvis,	*Portland.*	51 N. C.
Wilbur Clark Johnson,	*Winthrop, Mass.*	49 N. C.
Charles Hubbard Judd,	*Middletown.*	*308 William St.*
§ Henry Seymour Kline,	*Amsterdam, N. Y.*	*246 High St.*
Frederic Lawrence Knowles,	*Tilton, N. H.*	*203 High St.*

* Deceased.

NAMES.	RESIDENCES.	ROOMS.
§ Willis Thomas Lee,	*Brooklyn, Pa.*	23 N. C.
Alexander Henry Leo,	*Philadelphia, Pa.*	*248 High St.*
Lewis Marshall Lounsbury,	*Bridgeport.*	54 N. C.
Victor Nathan Lucia,	*Northampton, Mass.*	39 N. C.
§ Andrew Johnson Lynch,	*Robbins, Del.*	*22 Wyllys Ave.*
Irving Avard Meeker,	*Glen Ridge, N. J.*	*15 Pearl St.*
Benjamin Franklin Meredith,	*Norristown, Pa.*	*238 High St.*
William Henry Moser,	*Reading, Pa.*	64 N. C.
Leonard Bowdoin Moulton,	*Bucksport, Me.*	33 N. C.
Will M. Newton,	*Barnard, Vt.*	42 N. C.
Edwin Bryant Nichols,	*Hartford.*	60 N. C.
Ellis Franklin Nightingale,	*No. Attleboro, Mass.*	*246 High St.*
§ Edwin Halsey Pierson,	*Bridgehampton, N. Y.*	13 N. C.
Frederick Henry Sawyer,	*Thomaston.*	59 N. C.
Wilbur John Sawyer,	*Thomaston.*	59 N. C.
Alfred Jacob Saxe,	*Walden, N. Y.*	47 N. C.
Harry Kent Smith,	*Brooklyn, N. Y.*	Δ. K. E. *House.*
William Hamilton Smith,	*West Fairlee, Vt.*	52 N. C.
William Leonard Snow,	*Brockton, Mass.*	37 N. C.
Edgar Charles Snyder,	*Slatington, Pa.*	64 N. C.
§ Clayton Davis Standish,	*Meriden.*	X. Ψ. *Lodge.*
§ John Daniel Stark,	*Pittston, Pa.*	*98 Broad St.*
Edward Lee Steele,	*Hartford.*	60 N. C.
§ William Hill Taylor,	*Cambridge, O.*	*238 High St.*
§ Benjamin Franklin Thompson,	*Ridgway, Pa.*	23 N. C.
John Angus Thompson,	*Bridgeport.*	*5 Bailey Ave.*
Henry Archelaus Tirrell,	*Norwich.*	50 N. C.
Harry Reed Van Deusen,	*Unadilla, N. Y.*	*308 William St.*
John Gillen Walsh,	*Middletown.*	*160 Lincoln St.*
Thomas Rawson Warren,	*Los Angeles, Cal.*	*11 Pearl St.*
§ William Edwin Watt,	*Carbondale, Pa.*	*98 Broad St.*
Ralph Herbert White,	*Philadelphia, Pa.*	32 N. C.
Claude Lucas Wilson,	*Middletown.*	*5 Bailey Ave.*
§ Mary Eva Cramer,	*Portland.*	*274 High St.*
§ Alice Cora Fuller,	*Fitchburg, Mass.*	*167 High St.*
§ Florence Alberta Graves,	*Clinton, Ia.*	*274 High St.*
Susie Jane Mantle,	*Portland, Me.*	*274 High St.*
† Lizzie Chapin Rice	*Middletown.*	*342 Main St.*

SPECIAL STUDENTS.

Names.	Residences.	Rooms.
Robert Macdonald Moore, Jr.,	*Elizabeth, N. J.*	29 N. C.
George Rowland Munroe,	*Paterson, N. J.*	10 S. C.
Milbourne Munroe,	*Paterson, N. J.*	10 S. C.
Christine Kellogg Glover,	*Middletown.*	*306 William St.*
Caroline Tracy Robbins,	*Wethersfield.*	*274 High St.*

SUMMARY.

Graduate Students,	13
Seniors,	41
Juniors,	64
Sophomores,	53
Freshmen,	74
Special Students,	5
Total,	250

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
&	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, and named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course the study of Latin and Greek forms a large part of the required work of the first two years. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above Courses, all of the studies of the first year are required, except that the Classical and Latin-Scientific students have the option between French and German. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study

in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given below in the reports of the several departments on Courses of Instruction, and also in connection with the conditions for the degrees of Master of Arts and Master of Science.

TERMS OF ADMISSION.

CLASSICAL COURSE.

Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:

LATIN.—Candidates are examined in either of the following courses, according to their option:—

I. 1. Cæsar,—Gallic War, books I. and II.

2. Vergil,—Æneid, books I. to VI., inclusive, Eclogues.

3. Ovid,—the first ten selections in Allen & Greenough's Ovid (or Vergil's Georgics).

4. Cicero,—eight orations, of which those against Catiline and for Archias and for the Manilian Law shall be six.

5. Latin Grammar, including Prosody.

6. Translation into Latin of simple English sentences and easy narratives based on the prose authors read.

Candidates are also allowed, at the option of the examiner, to substitute translation at sight from the authors specified in Course II. for some of the passages set from the authors required in Course I., and it is especially urged that systematic practice in accurate sight-reading be made a part of the preparatory training from the very first.

II. 1. Translation at sight of passages from Cæsar, Cicero's Orations, Vergil, Ovid's Metamorphoses, Sallust, and Cornelius Nepos.

2. Latin Grammar and Composition, as in Course I.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *aye*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*, *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as

in *hack-hire, haphazard, boathook;* other consonants as in English.

It is urged that candidates shall be well drilled in the observation of quantity in oral reading, especially in Vergil and Ovid.

[After 1891, the entrance requirements in Latin will be as follows:—

1. Latin Grammar, including Prosody.

2. Cæsar,—Gallic War, books I.–IV.

3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.

4. Vergil,—Eclogues; Æneid, books I.–VI.

5. Ovid,—translation into English of passages of average difficulty from the Metamorphoses, no limit being set to previous reading.

6. Translation at sight into English of passages of prose Latin of average difficulty.

7. Translation into Latin of simple English sentences and easy narrative passages based on the prose authors read.

With the passages set under headings 5, 6, and 7, a vocabulary of the less common words is supplied. Candidates are also allowed, at the option of the examiners, to substitute translation at sight for some of the passages set from the required authors.]

GREEK.—Candidates are examined in either of the following courses at their option:—

I. 1. Four books of Xenophon's Anabasis.

2. Three books of Homer's Iliad.

3. Hadley-Allen's or Goodwin's Greek Grammar.

4. Simple sentences in Prose Composition.

Candidates in Course I. may substitute the translation of a prose passage at sight as the equivalent of one of the passages set for the examination in the Anabasis. It is very desirable that all candidates shall have had training in translation at sight.

II. 1. Translation at sight of average passages from Xenophon, and from the Iliad (the candidate being supplied with a vocabulary of the less usual words).

2. Prose Composition and Grammar, as in Course I.

[After 1891, the entrance requirements in Greek will be as follows:—

1. Greek Grammar,—Hadley-Allen's or Goodwin's.

2. Xenophon,—four books of the Anabasis.

3. Homer,—three books of the Iliad.

4. Translation at sight of one or more passages from Xenophon.

5. Translation of simple English sentences into Greek. Jones's Greek Prose will indicate the grade of proficiency expected.]

HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth.

3. Ancient Geography.

The amount of historical knowledge required for this examination may be obtained from the following books:—Cox's or Smith's smaller History of Greece, or Myers' Ancient History, Part I., beginning with Section II.; Allen's Short History of the Roman People, pp. 1-275. Tozer's Primer of Ancient Geography is recommended as the basis for instruction in Ancient Geography, and familiarity with map-drawing is especially desirable.

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures.

2. Algebra, through Progressions, including the use of the Binomial Formula for positive integral exponents,—so much, for example, as is contained in Wentworth's Elements of Algebra, or in the first seven books of Newcomb's Algebra for Colleges.

3. Plane Geometry,—the first five books of Chauvenet's Geometry, or their equivalent.

ENGLISH.—1. Each candidate will be required to write a short English essay upon a subject announced at the time of the examination. This essay will be expected to show a general familiarity with the works mentioned below, and will be examined with especial attention to accuracy of grammar, spelling, and punctuation. In 1891, the subject of this essay will be taken from one or more of the following works, candidates being required, however, to be prepared on all of them:—Shakspere's Julius Cæsar and Merchant of Venice, Coleridge's Ancient Mariner, Longfellow's Evangeline, Macaulay's Essay on Lord Clive, Webster's first Bunker Hill Oration, Irving's Alhambra, Scott's Old Mortality, George Eliot's Silas Marner, Hawthorne's House of the Seven Gables.

In 1892, it will be taken from the following:—Shakspere's Julius Cæsar and As You Like It, Scott's Marmion, Longfellow's Courtship of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Webster's first Bunker Hill Oration, Irving's Alhambra, Scott's Talisman, George Eliot's Scenes from Clerical Life, Hawthorne's House of the Seven Gables.

In 1893, it will be taken from the following:—Shakspere's Julius Cæsar and Twelfth Night, Scott's Marmion, Longfellow's Courtship

of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Ivanhoe, Dickens' David Copperfield.

In 1894, it will be taken from the following:—Shakspere's Julius Cæsar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens' David Copperfield.

2. Each candidate will be required to criticise specimens of English given him at the time of the examination.

Two hours will be allowed for the entire examination in English.

It is recommended that teachers of Greek and Latin in preparatory schools insist upon the use of simple and idiomatic English in translation.

LATIN-SCIENTIFIC COURSE.

Candidates for the Latin-Scientific Course will be examined in the following books and subjects:—

LATIN. Same requirements as for the Classical Course.

HISTORY AND GEOGRAPHY. Same requirements as for the Classical Course, including Greek History and Geography.

MATHEMATICS. Same requirements as for the Classical Course.

ENGLISH. Same requirements as for the Classical Course.

FRENCH OR GERMAN. Candidates will be examined in French or German as they may elect. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions.

SCIENTIFIC COURSE.

Candidates for the Scientific Course will be examined in the following books and subjects:—

MATHEMATICS.—Same requirements as for the Classical Course, with the addition of the following subjects:—

1. Algebra,—Permutations and Combinations, the Binomial Theorem for negative and fractional exponents, Continued Fractions, the Doctrine of Limits, the Nature of Series, Indeterminate Coefficients, Fundamental Properties of Logarithms, Fundamental Properties of Equations.

2. Solid and Spherical Geometry.

3. Plane and Spherical Trigonometry, with the use of Logarithmic and Trigonometric Tables.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH OR GERMAN.—Same requirements as for the Latin-Scientific Course.

SPECIAL COURSES.

Special Students, not candidates for a degree, may be admitted, upon passing such examination as the Faculty shall in each case prescribe.

No one can be admitted to the Freshman Class under the age of fifteen years, or to an advanced standing without a corresponding increase of age.

All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

A student who has accomplished half or more of the preparatory course, may be examined on that part, and receive credit therefor. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

The regular examination for admission is held on the Thursday and Friday of Commencement Week. All candidates must be present at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the Fall Term.

Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1st. The time of these examinations will be Thursday and Friday of Commencement Week. But, if no applications are received before June 1st, these examinations will not be held.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

LATIN.

PROFESSOR MERRILL; MR. HARRINGTON.

I. Livy,—Books 21 and 22, with parallel readings from Polybius in translation. *Four times a week during the first half-year.* MR. HARRINGTON.

Horace,—Selections from Epodes, Satires, Odes, and Epistles. *Four times a week during the second half-year.* MR. HARRINGTON.

Exercises in sight translation and prose composition throughout the year.

Course I. is required of Classical and Latin-Scientific Freshmen.

II. Plautus,—Trinummus; Terence,—Andria. *Twice a week during the first half-year.* MR. HARRINGTON.

Cicero,—Selected Letters. *Twice a week during the second half-year.* PROFESSOR MERRILL.

Course II. is required of Classical Sophomores and elective for Latin-Scientific Sophomores.

III. Livy,—Books 5-7; Vergil,—Aeneid, Books 7-12; Exercises in Prose Composition. *Twice a week.* PROFESSOR MERRILL.

The especial object of Course III. is to give instruction and practice in the rapid reading and precise and sympathetic understanding of Latin. To this end there is systematic drill in tracing the development of thought as indicated by the Latin order of words, and in understanding the language at sight and hearing without translation. The exercises in composition are conducted in harmony with this purpose.

Course III. is elective for those who have taken Course I. and who also take, or have taken, Course II.

Prospective candidates for special honors in Latin at graduation should elect Course III. in the Sophomore year, and all others who intend to pursue any of the higher elective courses in Latin will gain a year by doing the same.

IV. Pliny the Younger,—Selected Letters. *Twice a week during the first half-year.* PROFESSOR MERRILL.

Tibullus and Propertius,—Selected Elegies. *Twice a week during the second half-year.* MR. HARRINGTON.

V. Tacitus,—Agricola, Germania, Annals, Books 1 and 4. *Twice a week during the first half-year.* PROFESSOR MERRILL.

Catullus. *Twice a week during the second half-year.* PROFESSOR MERRILL.

VI. Lucretius,—Books 1, 2, and 5. *Twice a week during the first half-year.*

Ovid,—Selections. *Twice a week during the second half-year.*

Course IV. alternates in successive years with Courses V. and VI., Course IV. being given this year.

Courses IV., V., and VI. are elective for those who have taken Courses I. and III.

VII. Roman Topography. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Once a fortnight.* MR. HARRINGTON.

VIII. Latin Prose Composition. A course in advanced work, with practical exercises and demonstrations, designed to illustrate the theory of Latin rhetoric. *Once a week.* PROFESSOR MERRILL.

(For the present year only, the exercises in Course VIII. are held fortnightly, to enable it to be elected in conjunction with Course VII.)

IX. Roman Private and Social Institutions. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Once a week.* PROFESSOR MERRILL.

Courses VII. and VIII. alternate in successive years with Course IX., Courses VII. and VIII. being given this year.

Courses VII., VIII., and IX. are elective for those who take, or have taken, Course III.

X. During the second half-year the Professor in charge will conduct a series of about eight conferences of an hour each on the History and Methods of Classical Study and Teaching. These conferences will be open, on application to the leader, to all persons interested, but are designed especially for those students in the advanced courses who are intending to teach Latin.

XI, LATIN SEMINARY. To this course of instruction and practice in methods of advanced work are admitted graduate students, Seniors who are candidates for special honors in Latin at graduation and have already taken of Courses I.–VI. at least four, and other applicants who may be especially qualified. Semi-weekly meetings are

held, lasting two hours each, and for undergraduate members the course is counted as a three-hour study in making up the quota of work. The subject for the present year is a critical study of certain of the poems of Catullus, with the presentation of papers embodying individual investigation of assigned topics. The Seminary meets in a room set apart for its own study and library, and is led by Professor Merrill.

For the successful prosecution of Courses III.-VI., a reading knowledge of easy German prose on philological subjects is especially desirable, and for Course XI. it is necessary. Students, therefore, who look forward to the study of Latin beyond the required courses, and have on admission to college no acquaintance with German, should elect German in the Freshman year.

GREEK.

PROFESSOR VAN BENSCHOTEN; MR. TAYLOR.

I. Herodotus. Special attention to Morphology and Etymology; Greek History. *Four times a week during the first term.* MR. TAYLOR.

Thucydides; Syntax, with Composition. *Four times a week during the second term.* MR. TAYLOR.

Homer; Prosody; Lectures on Greek language and life in Homeric literature. *Four times a week during the third term.* MR. TAYLOR.

Throughout the year considerable time is given to sight-reading, and students are encouraged to read large amounts with as little use of lexicon and grammar as possible. In recitation, accuracy of translation and good English are insisted on.

Course I. is required of Classical Freshmen.

II. Aeschines and Demosthenes on the Crown. Lectures on the Public Life of the Greeks. A course of collateral reading is required, covering Butcher's Demosthenes, Jebb's Primer of Greek Literature, and portions of Jebb's Greek Orators. *Twice a week during the first term.* PROFESSOR VAN BENSCHOTEN.

Aeschylus,—Prometheus Bound; Sophocles,—Antigone. Lectures on Greek Drama, with illustrations. The collateral reading includes Jebb's Primer of Greek Literature, portions of Jevons' History of Greek Literature and Mahaffy's History of Greek Literature, and Haigh's Attic Theatre. *Twice a week during the second term.* PROFESSOR VAN BENSCHOTEN.

Plato,—Euthyphro, Apologia, Crito, Phædo. Lectures on Greek Philosophy. Rapid translation, with attention to the style and thought of the author. The collateral reading includes introductory chapters of Grote's Plato, and Zeller's Outlines of Greek Philosophy. *Twice a week during the third term.* PROFESSOR VAN BENSCHOTEN.

During Sophomore year the cultivation of the sense of style and of the ability to appreciate beauty in literature is especially aimed at.

Course II. is required of Classical Sophomores.

III. Greek Comedy,—The Frogs and the Acharnians of Aristophanes. Greek Tragedy,—Aeschylus, Sophocles, Euripides. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

IV. Greek Philosophy,—Plato, Aristotle, and Xenophon; The Clouds of Aristophanes. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

In connection with III. and IV., fortnightly meetings are held for special studies in the Greek language and literature.

These courses are intended for those who desire a wider acquaintance with Greek literature and a more technical knowledge of grammar and the details of interpretation. They are given in alternate years, Course III. being given the current year.

Courses III. and IV. are elective for those who have taken Courses I. and II.

V. Biblical Greek,—The Gospels and the Acts; The Shepherd of Hermas. *Twice a week.* PROFESSOR VAN BENSCHOTEN.

VI. Biblical Greek,—The Epistles of the New Testament; The διδαχή or the Teaching of the Apostles. *Twice a week.* PROFESSOR VAN BENSCHOTEN.

In connection with V. and VI., fortnightly meetings are held for special studies in methods of interpretation and in the history of the text. They are alternate courses, Course VI. being given the current year.

Courses V. and VI. are elective for those who have taken Courses I. and II.

VII. Pindar; Lucian; Neo-Hellenic; Readings in Pausanias, with studies on the geography and topography of Greece, on epigraphy, and on Greek art and life. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

Course VII. is elective for those who have taken either Course III. or Course IV.

HEBREW.

PROFESSOR PRENTICE.

The class will begin with Davidson's Introductory Hebrew Grammar. Special attention will be devoted to the acquisition of the habit of prompt and accurate translation of English into Hebrew. Some ten or twelve chapters of easy Hebrew will be read first, such as the story of Rebecca, the finding of Joseph, the life of Samson, David and Goliah, or Elijah the Tishbite. Constant effort will be made to secure an easy and accurate pronunciation.

The class will next read Genesis i.-ix. In connection with this reading, Mitchell's Gesenius' Hebrew Grammar will be studied with especial reference to the syntax. Then a number of psalms will be read. Special topics will be assigned to different members of the class to examine, and their reports will be read before the class. For reference books, the student will need the Hebrew Bible of Hahn, or Stier and Theile, and the lexicon of Gesenius or Fuerst. *Five times a week.*

This course is elective for Juniors.

GERMAN.

PROFESSOR PRENTICE.

I. GERMAN. Whitney's German Grammar, taking the first series of lessons outlined by the author. Whitney's German Reader. After the first examination, special attention is given to gaining a mastery of the irregular verbs, the rules for the gender of the nouns, and the order of the German sentence. *Three times a week.*

II. GERMAN. Schiller's Wilhelm Tell, Heine's Harzreise, Lessing's Minna von Barnhelm. Systematic sight-reading is practiced, Stern's Select Comedies or other books of like difficulty being used. *Twice a week.*

III. GERMAN. Schiller's Wallenstein Trilogy, and Nathan der Weise. A large selection from Schiller's lyrics is assigned the class for collateral reading. *Twice a week.*

Course III. is omitted this year.

IV. GERMAN. This course will be mainly, if not wholly, given to the study of Goethe. Both parts of Faust will be read. Next the class will read Hermann and Dorothea. A large selection of Goethe's lyrics is assigned the class for collateral reading. *Twice a week.*

In connection with the plays read in Courses III. and IV., special effort will be made to render the class familiar with the most important criticism the dramas have encountered. In addition to this, two lectures will be given on Klopstock, five on Lessing, two on Wieland, four on Herder, six on Schiller, and eight on Goethe.

Course IV. will be omitted next year.

Rules concerning the election of courses in German are given below, at the end of the report of the Department of Romance Languages.

ROMANCE LANGUAGES.

ASSOCIATE PROFESSOR KUHNS.

I. FRENCH. Whitney's Practical French Grammar, Part I. De Maistre,—La Jeune Sibérienne, Le Lépreux de la Cité d' Aoste; Erckmann-Chatrian,—Madame Thérèse, Le Roi des Montagnes; Peyrebrune,—Les Frères Colombe. Part of the above books are read at sight. *Three times a week.*

In addition to the above work, the class is divided into small sections, each of which meets the instructor once a week for personal drill in pronunciation.

II. FRENCH. Whitney's Grammar, Part II. Macmillan's French Composition, First Course. This course has for its main object the study of advanced grammar and composition in connection with the reading of a large amount of French. During the second half-year, however, some attention is paid to the literature, and one play each of Corneille, Racine, and Molière is read. The following books are read:—

Mérimée,—Colomba; Sandeau, — Mademoiselle de la Seiglière; Augier et Sandeau,—Le Gendre de M. Poirier; Corneille,—Horace; Racine,—Britannicus; Molière,—Les Femmes Savantes; Rougemont,—La France; Daudet,—Contes Choisis; Enault,—Le Chien du Capitaine; Halèvy,—L'Abbè Constantin; Erckmann-Chatrian,—L'Ami Fritz.

Part of the above books are prepared for class, part read at sight, and part assigned as collateral readings. *Twice a week.*

In connection with this course, a voluntary class in conversation has been formed, which meets twice a week. Informal lectures in French on topics of interest are also given.

III. FRENCH. This course consists in the study of Nineteenth Century literature. Selections are read from the works of Cha-

teaubriand, Lamartine, Delavigne, de Musset, Béranger, Victor Hugo, George Sand, Balzac, de Banville, and Coppée. *Twice a week.*

ITALIAN. Grandgent's Grammar. Dall' Ongaro,—La Rosa dell' Alpi; De Amicis,—Alberto; Barrili,—Una Notte Bizzara; Pellico,—Le Mie Prigioni; Tasso,—La Gerusalemme Liberata. *Twice a week.*

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Classical and Latin-Scientific Courses, who look forward to the study of Latin or Greek beyond the required courses, and have no previous acquaintance with German, should elect German in the Freshman year. Candidates for the Latin-Scientific and Scientific Courses are examined at entrance to test their ability to read at sight easy passages in French or German as they may elect. Students in the Latin-Scientific Course are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course must, during the first two years, take either I. French, II. French, and II. German, or I. German, II. German, and II. French, according as they were examined at entrance in German or French. Aside from these restrictions, each course in either language is elective for those who have previously taken the preceding course or courses in the same language.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's Primer of English Literature, with lectures. *Twice a week.*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspere's Hamlet; selections from Pope's Satires. *Once a week.*

3. A brief course of collateral reading. Every member of the class must take one of the courses named below. Schedules of the courses, with lists of books on biography and criticism, may be had in the library. Examinations on this reading are held at the end of each term. The courses for the present year are as follows:—

(1.) Marlowe's Faustus and Green's Friar Bacon; Shakspere's Henry IV., As You Like It, Antony and Cleopatra, Winter's Tale, and ten sonnets; Bacon's Essays,—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost, Book I., Samson Agonistes.

(2.) Johnson's Lives of Milton, Dryden, Swift, Addison, Pope, and Gray; Milton's Comus and Paradise Lost, Book I.; Dryden's Absalom and Achitophel; Swift's Tale of a Tub, Journal to Stella, letters I.–VII., Morley's edition; Selected Essays of Addison, Clarendon Press edition; Pope's Rape of the Lock; Gray's Elegy.

(3.) Thackeray's Lectures on Swift, Addison, Steele, Prior, Gay, Pope, Sterne, and Goldsmith; Swift's Tale of a Tub, Battle of the Books, Journal to Stella, letters I.–VII., Morley's edition; Selected Essays of Addison, Clarendon Press edition; Selected Essays of Steele, Dobson's edition; Goldsmith's Deserted Village, Retaliation, and Vicar of Wakefield; Leslie Stephen's Johnson, chaps. iii., iv.

(4.) Leslie Stephen's Johnson, chaps. iii., iv.; Macaulay's Life of Johnson; Johnson's Rasselas and Vanity of Human Wishes; Cowper's Task, Book I.; Burke's Two American Speeches, Reflections on the Revolution in France,—the first half, Letter to a Noble Lord; Burns, —selected poems.

(5.) Burns,—selections; Wordsworth,—selected poems in Arnold's edition; Shelley,—selected poems in Stopford Brooke's edition; Keats' Hyperion, Odes, and Sonnets; Byron,—one Canto of Childe Harold; Lamb,—selections from the essays of Elia; De Quincey's Recollections of Lamb and Wordsworth, Suspiria de Profundis; Shairp's Essay on Wordsworth.

Course I. is elective for Juniors.

II. ENGLISH LITERATURE from 1830 to 1880, especially as represented in the work of Carlyle, Matthew Arnold, Tennyson, and Browning. Members of the class will read carefully the principal writings of these authors; will consider their attitude toward the leading movements in thought and in society during a half century; and will prepare abstracts and critical studies of what they read, for discussion before the class. *Twice (counting as three times) a week.*

Course II. is elective for those who have taken Course I.

III. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior must write an argument for debate before his class, and either four essays or two public orations. All written work receives the personal criti-

cism of the Professor, and the orations are also rehearsed before the Professor of Elocution.

ENGLISH LANGUAGE.

ASSOCIATE PROFESSOR MEAD.

I. TRENCH'S ENGLISH PAST AND PRESENT, with a short course of lectures upon the rise and early history of the language. *Once a fortnight during the first and second terms; once a week during the third term.*

ELEMENTARY RHETORIC, with frequent practical exercises. *Once a week during the first and second terms; once a fortnight during the third term.*

Course I. is required of Freshmen.

II. RHETORIC. Genung's Practical Rhetoric. The members of the class are required to write—in addition to their regular essays—weekly exercises illustrating and applying the principles laid down in the text-book. These exercises are discussed and criticised by the class. As a study in modern prose style the class reads and discusses in the class-room Macaulay's Essays on Samuel Johnson. *Three times a week during the first half-year.*

Course II. is required of Sophomores.

III. ENGLISH COMPOSITION. 1. Sophomores are required to write six essays in the year on subjects assigned by the Professor, and to meet six times for general class discussion and criticism of their themes.

2. Juniors write seven essays in the year on subjects of their own selection. Two, at least, of these essays must be written on subjects related to some department of college work, and the topics presented in writing to the Professor at the beginning of the second term. Every member of the Junior class meets the Professor privately, once a term, for individual criticism upon his work.

IV. ANGLO-SAXON. 1. Sweet's Anglo-Saxon Primer and Anglo-Saxon Reader; Cynewulf's (?) Andreas or Cynewulf's Elene. *Twice (counting as three times) a week.*

2. Drill in etymology and historical grammar is a frequent class exercise. The class work is supplemented by collateral reading in Lounsbury's History of the English Language. As further collateral reading, Freeman's Old English History and York-Powell's Early England are recommended. Literary history is treated chiefly in lectures.

3. Each member of the class is required, in addition to the above, to select one of the following courses for private reading:—

(1.) Judith; King Alfred's West Saxon version of Gregory's Pastoral Care.

(2.) King Alfred's Orosius; selections from the Blickling Homilies.

(3.) Wulfstan's Homilies; selections from Beówulf.

(4.) Ælfric's Metrical Homilies; Cædmon's (?) Genesis or Exodus.

(5.) Selections from the Anglo-Saxon Chronicle, with the minor poems of the Chronicle.

V. OLD ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's Specimens of Early English. *Twice (counting as three times) a week.*

2. The work in etymology and historical grammar is a continuation of that of Course IV. The historical development of the literature will receive more attention than in Course IV. For collateral reading, ten Brink's History of English Literature is recommended.

3. Of the following courses each member of the class will select one for collateral reading:—

(1.) Selections from the Arthur Romances, with a study of some of their sources.

(2.) Selections from the Charlemagne Romances.

(3.) Selections from Chaucer's Canterbury Tales and minor poems.

(4.) Selections from the metrical chroniclers.

(5.) Selections from religious prose literature, the Ancren Riwle, Dan Michel's Ayenbite of Inwyt, etc.

Courses IV. and V. alternate with each other in successive years, Course IV. being given this year.

Courses IV. and V. are elective for Juniors.

During the current year a considerable amount of literature has been purchased for this department. All books important for collateral reading will be placed in a special library and made easily accessible to the class.

ELOCUTION.

PROFESSOR HIBBARD.

1. DECLAMATION. Members of the Freshman class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six, declamations in the year.

The exercises in the Sophomore and Junior years are specially assigned, and are intended to develop a good variety of style.

Considerable time, in rehearsal and criticism, is also given to those Seniors who elect Orations.

II. THEORY OF ELOCUTION. The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given, and the text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation, to be delivered before the class for criticism. The purpose of the work this term is to render each student competent to judge correctly of his own expression of thought and feeling, and to intelligently criticise others. *Twice a week.*

Course II. is elective for Juniors.

HISTORY AND JURISPRUDENCE.

ASSOCIATE PROFESSOR STEPHENSON.

I. ENGLISH CONSTITUTIONAL HISTORY. This course has as its basis Taswell-Langmead's English Constitutional History. It is supplemented for the purpose of illustration and comparison, by topical lectures and parallel readings in the general histories of England, France and other European countries. *Twice (counting as three times) a week.*

II. HISTORY OF THE UNITED STATES. This course consists, in the first term, of class drill in the colonial portion of Doyle's History of the United States, in Fiske's Critical Period of American History, in Johnston's History of American Politics, and in collateral authorities; in the second and third terms, of lectures on the history of the sixty years beginning with the administration of Andrew Jackson and closing with the administration of Cleveland and the end of the first century of the constitution. *Twice (counting as three times) a week.*

Courses I. and II. are elective for Juniors, in alternate years, Course I. being given this year.

III. HISTORY OF INSTITUTIONS. The central aim of this course is to put the development of the political institutions and of the politics of the United States in its true historical setting. It covers such topics as the following:—The origin and development of government; ancient political systems; mediæval political organization; the constitutional growth of the leading European states, and the chief features of their constitutions; the governments of England and the United States; the functions and aims of government; the nature and development of law, etc. Wilson's The State is used as a text-book. Parallel readings are assigned and frequent oral and written examinations are held. *Twice a week.*

Course III. is elective for Seniors.

IV. CONSTITUTION OF THE UNITED STATES. Cooley's Principles of Constitutional Law is used as a text-book in the legal aspects of the fundamental law of the Union; but the object of the instruction is to familiarize the class with all the main aspects of our constitution, both state and federal, unwritten developments, practical questions, legislative machinery, etc. For this purpose various commentaries of different grades are more or less used, and supplementary lectures are given. *Twice a week during the second half-year.*

Course IV. is required of Juniors.

V. ROMAN JURISPRUDENCE. The general history of Roman law is studied during the first half of the year. Muirhead's Roman Law is used as a text-book. The latter half of the year is given to a somewhat careful study and comparison of the Code of Gaius and the Institutes of Justinian, with lectures upon the influence of Roman law on the various European codes. *Twice a week.*

Course V. is elective for Juniors.

ECONOMICS AND SOCIAL SCIENCE.

MR. COMMONS.

I. POLITICAL ECONOMY. Ely's Introduction to Political Economy is used as the basis of the work, with monographs and lectures on special topics. *Twice a week.*

Course I. is required of Seniors.

II. FINANCE. The work includes the general subject of the income and expenditures of government, local, state, and national, an

historical sketch of the development of modern finance, and consideration of present problems. An essay on local taxation is required of each member of the class. The course is conducted by means of lectures and conferences, supplemented with work in Ely's Taxation in American States and Cities, and Adams' Public Debts. *Twice a week.*

Course II. is elective for Seniors.

III. SOCIAL SCIENCE. Lectures are given on the scope of sociology, followed by the special consideration of such topics as charities, prisons, education, the family, etc. Collateral readings are also required. *Once a week.*

Course III. is elective for Seniors.

PHILOSOPHY.

PROFESSOR ARMSTRONG.

I. LOGIC. Jevons-Hill's Elements of Logic. The aim of this course is to ground the student in the fundamental forms of reasoned thinking, deductive and inductive alike. Logic is viewed not merely as a preliminary philosophical discipline, but as preparatory to all later and more advanced work. The study of the text-book is emphasized by numerous examples in logical praxis. *Twice a week during the second half-year.*

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology, with references to McCosh's Psychology, Ladd's Elements of Physiological Psychology, and other authorities. Instruction is not confined to the text-book, but lectures and discussions are used to explain and supplement it. These are introduced especially in illustration of the more recent psychological investigations and of positions still under debate. *Three times a week during the first half-year.*

Course II. is required of Juniors.

III. PHILOSOPHY. Stuckenberg's Introduction to the Study of Philosophy, Schwegler's History of Philosophy, with lectures and discussions. About two-thirds of the year are devoted to philosophical introduction, with collateral readings in Ladd's Introduction to Philosophy and Mill's Logic, or Fowler's Inductive Logic. In the latter part of the year the history of philosophy is commenced, with special reference to the ancient systems. *Twice a week.*

Course III. is elective for Juniors.

IV. HISTORY OF MODERN PHILOSOPHY. Schwegler's History of Philosophy is used as the basis for an outline course in the development of philosophic thought in the modern era. Attention is chiefly devoted to the leading systems from Descartes to Kant. Lectures and discussions are introduced in addition to the text-book work. *Twice a week.*

Course IV. is elective for Seniors.

V. SELECTIONS FROM LEADING MODERN PHILOSOPHERS. This course consists of direct study of selections from the classical works of the modern period, either in the original text or in translation. The plan of the course includes also collateral readings, discussions and essays on the systems considered. It is based this year on such works as Veitch's Method, Meditations and Selections from the Principles of Descartes, Locke's Essay on Human Understanding, Fraser's Selections from Berkeley, Hume's Inquiry concerning Human Understanding, Kant's Prolegomena, etc. *Once a week.*

Course V. is elective for Seniors who take Course IV.

ETHICS AND EVIDENCES OF CHRISTIANITY.

PRESIDENT RAYMOND.

I. EVIDENCES OF CHRISTIANITY. The aim of the course is to study the topics most vitally related to the subject of Christian Evidences from several points of view. Row's Manual of Christian Evidences, in which the whole argument revolves around the personality of Christ, is used as an outline for the course of work. This is supplemented by Fisher's Grounds of Theistic and Christian Belief. To this is added a course of lectures designed to treat the same subject from the Biblical point of view. *Twice a week during the first term.*

Course I. is required of Seniors.

II. ETHICS. Robinson's Principles and Practice of Morality. The instruction in this subject is conducted by recitations and class-room discussions. The former part of the course is given to theoretical ethics, with a somewhat extended treatment of the psychology of conscience and of the several theories of moral obligation. The remainder of the course is devoted to practical ethics. *Twice a week during the second term.*

Course II. is required of Seniors.

III. THEISM. The course is conducted by lectures, supplemented by collateral readings and class discussions. Its purpose is to discover

essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Once (counting as twice) a week.*

Course III. is elective for Seniors.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. JAMES; MR. EICHELBERGER.

I. SOLID GEOMETRY. Chauvenet's Elementary Geometry. *Four times a week during the first third of the year.* MR. EICHELBERGER.

ALGEBRA. Hall and Knight's Higher Algebra. *Four times a week during the second third of the year.* MR. EICHELBERGER.

TRIGONOMETRY,—Plane and Spherical. Wheeler's Trigonometry; Newcomb's Logarithmic Tables. *Four times a week during the last third of the year.* MR. EICHELBERGER.

Course I. is required of Classical and Latin-Scientific Freshmen.

II. ANALYTICAL GEOMETRY,—elementary course. Wentworth's Analytical Geometry. *Three times a week during the first term.* MR. JAMES.

Course II. is required of all Classical and Latin-Scientific Sophomores and Scientific Freshmen, except those who elect Course IV.

III. APPLICATIONS OF TRIGONOMETRY to Surveying, Navigation, and elementary problems in Astronomy. Wentworth's Navigation and Surveying. *Once a week, with instrumental practice.* MR. EICHELBERGER.

Course III. is elective for Classical and Latin-Scientific Sophomores, and for Scientific Freshmen.

IV. ANALYTICAL GEOMETRY. C. Smith's Conic Sections; Aldis' Solid Geometry. *Three times a week during the first half-year.* MR. JAMES.

DIFFERENTIAL CALCULUS. Williamson's Differential Calculus. *Three times a week during the second half-year.* MR. JAMES.

Course IV. is elective for Classical and Latin-Scientific Sophomores, and Scientific Freshmen.

Prospective candidates for special honors in Mathematics at graduation, are advised to take Course IV. in the Sophomore year.

V. DIFFERENTIAL AND INTEGRAL CALCULUS,—elementary course. Taylor's Treatise on Differential and Integral Calculus. *Twice a week.* MR. EICHELBERGER.

Course V. is elective for those who have taken Courses I. and II.

VI. DIFFERENTIAL AND INTEGRAL CALCULUS,—in continuation of Course IV. Williamson's Treatises on Differential and Integral Calculus. *Twice a week.* MR. JAMES.

Course VI. is elective for those who have taken Course IV.

VII. THEORY OF EQUATIONS,—based on Burnside and Panton's treatise. *Twice a week during the first half-year.* PROFESSOR VAN VLECK.

ANALYTICAL GEOMETRY OF THREE DIMENSIONS. *Twice a week during the second half-year.* PROFESSOR VAN VLECK.

Course VII. is elective for those who have taken Course IV.

VIII. DIFFERENTIAL EQUATIONS. Johnson's Treatise on Differential Equations. *Twice a week.* MR. JAMES.

Course VIII. is elective for those who have taken Courses IV. and VI.

IX. ANALYTICAL MECHANICS,—based on Sturm's Cours de Mécanique. *Three times a week.* PROFESSOR VAN VLECK.

Course IX. is elective for those who have taken Courses IV. and VI.

X. ASTRONOMY,—a general course, requiring only elementary mathematics. Young's Text-book of General Astronomy. *Three times a week during the first term; twice a week during the second term.* PROFESSOR VAN VLECK.

Course X. is required of Classical and Latin-Scientific Juniors, and Scientific Sophomores.

XI. SPHERICAL AND PRACTICAL ASTRONOMY,—based on Chauvenet's Manual. *Twice (counting as three times) a week, with practical exercises in the Observatory.* PROFESSOR VAN VLECK.

Course XI. is elective for those who have taken Courses IV. and VI., or Course V.

In addition to the foregoing, the Professor of the department will assist graduate students, and candidates for honors at graduation, in their mathematical reading, meeting them at such times as may be determined by mutual agreement. The books chosen for graduate instruction this year are:—

Gauss, Theoria Motus Corporum Coelestium;

Dziobek, Die mathematischen Theorien der Planeten-Bewegungen.

PHYSICS.

PROFESSOR CRAWFORD.

I. ELEMENTARY PHYSICS. An elementary course based on Ganot's Physics. *Three times a week during the first term, six times a week during nine weeks of the second term.*

Course I. is required of Classical and Latin-Scientific Sophomores and Scientific Freshmen.

II. PROBLEMS IN PHYSICS. This course is meant to supplement Course I., chiefly in the department of Elementary Mechanics, to which the greater part of the course is devoted. Special attention is given to the solution of problems. *Once a week.*

Course II. is elective for Classical and Latin-Scientific Sophomores and Scientific Freshmen. It will be required hereafter of all who elect Course V.

III. SOUND AND LIGHT. A course of lectures on Sound and Light, including an elementary mathematical discussion of vibratory motion in general. *Twice a week.*

IV. ELECTRICITY AND HEAT. A course of lectures on Electricity and Heat. *Twice a week.*

Courses III. and IV. are meant to give a more complete survey of the experimental facts of the subjects which they cover than can be given in Course I., coupled with such mathematical discussions of the theories involved as require only elementary applications of the Calculus. These courses are given in alternate years, Course III. being given this year.

Courses III. and IV. are elective for those who have taken Course I.

V. PRACTICAL PHYSICS. The work of this course is variable. A list of experiments, with appropriate references, has been prepared, covering not only the quantitative experiments described in such manuals as those of Kohlrausch, Glazebrook and Shaw, and Stewart and Gee, but also a wide range of simpler qualitative work. From this list, experiments are assigned to each student according to his taste and skill, as well as the time which he purposes to devote to the study of physics, and the use which he expects to make of his knowledge of the subject. *Twice a week, or three times a week, each exercise occupying at least two and one half hours.*

Course V. is elective for those who have taken Course I.

VI. PRACTICAL PHYSICS. A continuation of the Junior laboratory course, with the same conditions as to time.

Course VI. is elective for those who have taken Course V.

CHEMISTRY.

PROFESSOR ATWATER; ASSOCIATE PROFESSOR BRADLEY.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inor-

ganic chemistry. The exercises consist of lectures and laboratory practice, with occasional recitations, chiefly written. Remsen's Introduction to Chemistry was used the last year, as giving very convenient descriptions of experiments. Each student performs the larger number of the experiments given in such a book, and numerous others. *Six times a week during the last twelve weeks of the year.* PROFESSOR ATWATER.

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. QUALITATIVE ANALYSIS. It is assumed that Course I. will give sufficient drill in the principles of the science, and in laboratory practice to enable the student to work understandingly in qualitative analysis, to which the first year's elective work in the laboratory is devoted. The usual course of preliminary study of reactions and subsequent analysis of complex substances is pursued, with the addition of a series of lectures on the more common metals. After the present year, only those who have successfully completed this course, will be eligible to the courses which follow. *Twice a week, or three times a week, each exercise occupying at least two and one half hours.* DR. BRADLEY.

Course II. is elective for those who have taken Course I.

III. QUANTITATIVE ANALYSIS. This is taken up at the beginning of the second year's work in the laboratory. After a series of general exercises for practice, extending through the first and second terms, the students are encouraged to enter upon special work, such as seems desirable in each case. Those who propose to study medicine, for instance, engage in the preparation and determination of the proximate compounds of the body, or in other work, qualitative as well as quantitative, in physiological chemistry. *Required time the same as for Course II.* DR. BRADLEY.

Course III. is elective for those who have taken Course II.

IV. ORGANIC AND PHYSIOLOGICAL CHEMISTRY. The exercises in this course consist of laboratory work, lectures, and recitations. The class meets the instructor in a less formal manner than is usual in other subjects. The course is somewhat flexible, and the attempt is made to adapt it to the special wants of the class. The first part of the year is devoted to organic chemistry, the latter part—from about the middle of March, to physiological chemistry. *Three times a week.* PROFESSOR ATWATER and DR. BRADLEY.

Course IV. is elective for those who have taken Course II.

V. For students in the Scientific Course who desire to pursue the study of chemistry beyond the limits of Courses I.–IV., further work is provided.

Candidates for special honors in Chemistry pursue special lines of study cognate with those in Course IV.

GRADUATE INSTRUCTION. Dr. Bradley will conduct, the present year, two courses:—

VI. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development and present status of the theory of the atom and molecule. Although designed chiefly to meet the needs of graduate students, this course will be, for the present, elective for those who have completed qualitative analysis. *Once a week.*

VII. LABORATORY PRACTICE. The first term of the year will be devoted to the making of a series of chemical preparations, so selected as to give a good degree of practical familiarity with typical organic reactions and compounds. It is expected that, during the latter half of the year at least, the student will undertake some form of original investigation.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. Leconte's Compend of Geology is used as a text-book, and is supplemented by lectures. The problems of dynamical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. Illustrations of geological principles are taken, so far as practicable, from localities in the immediate vicinity of Middletown; and occasional excursions are arranged to give a knowledge of local geology, and to teach the student how to observe geological phenomena in general. *Twice a week during the second term, and six times a week during the third term.*

Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. ADVANCED GEOLOGY. During the greater part of the year, informal and conversational recitations in Leconte's Elements of Geology are held three times a week. This part of the course is intended to give the student a more complete and comprehensive knowledge of the general principles of the science than can be gained in the required course. The subjects of lithology and paleontology, especially, are

treated much more fully than is possible in the required course. Besides the lessons in the text-book, special topics for study, with references to authorities, are from time to time assigned to each member of the class. Lectures on these topics are given by the members of the class, and are criticised and discussed. Frequent excursions afford opportunity for practice in observation in the field. In each excursion, one member of the class is appointed to present a report on the phenomena observed, in the form of a lecture to the class at its next meeting. After the completion of the work in the text-book, and the collateral lectures, the remainder of the year is occupied in the more detailed study of special topics assigned to individual students, or to groups of students. According to the nature of the topic, the materials of research may be found in the library, the museum and laboratory, or the field. The instructor gives to each student such guidance and assistance as may be practicable or desirable. Groups of students engaged on the same topic or on closely related topics meet from time to time to hear and discuss the reports of each other's work.

Course II. is elective for those who have taken Course I.; but it is very desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, with Geikie's Elementary Lessons as text-book. *Three times a week for fifteen weeks in the first and second terms.*

Course III. is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

IV. MINERALOGY. This course comprises three parts, each occupying approximately one term:—1, a course of lectures on crystallography, with practical exercises in the study of crystallographic models and of crystals; 2, a brief course of lectures on optical mineralogy, and a course of laboratory work in determinative mineralogy; 3, a course of lectures on descriptive mineralogy. The lectures on descriptive mineralogy are given in the Museum, so that the characteristics of each important mineral can be illustrated by a full suite of specimens. The works of Dana and Brush, and Williams' Elements of Crystallography, are used for reference. *Three times a week.*

Course IV. is elective for Classical and Latin-Scientific Juniors, and for Scientific Sophomores.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. The object of the course is to give the student a general knowledge of the functions of the various organs of the body in their normal condition. The origin, distribution, and final transformations of the energy of the body are treated in accordance with the doctrine of the conservation of energy. Enough anatomy is given to render the physiological discussions intelligible, and enough of hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures. *Three times a week during the first term; twice a week during the second term.*

Course I. is required of Classical and Latin-Scientific Juniors, and Scientific Sophomores.

II. GENERAL BIOLOGY AND BOTANY. These two studies, together with Physical Geography, form one elective. *Three times a week.*

General Biology. This study is begun in the fall and lasts about eight weeks. The time is spent in studying the simpler laws of life, and the relations of animals and plants. Practical study is made of the fern, the earthworm, and the frog, which are used as illustrating the general structure and physiology of animals and plants. This course is designed as an introduction to the studies of Botany, Zoology, and Physiology.

Botany is begun near the end of the second term. Gray's Lessons, accompanied by lectures on subjects not treated in the text-book. As soon as the season allows, the class-room exercises are replaced by laboratory work, including the analysis and description of plants, and the study of structural botany. Two hours in the laboratory are considered as equivalent to an hour's recitation.

Course II. is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

III. ZOOLOGY. Lectures, recitations and class dissections. This course is designed to give the student a knowledge of the phenomena connected with life in general. Typical examples, illustrating the various groups of the animal kingdom, are described, and dissected by the class, attention being given rather to the general laws governing living beings than to the systematic classification of species. The

course includes the embryology of the various forms studied, as well as their adult anatomy. *Twice a week.*

Course III. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

IV. PRACTICAL BIOLOGY. The Practical Biology courses are very elastic. Being laboratory courses under personal direction, there is opportunity for wide variation to suit individual needs. The design of these courses is to furnish opportunity for special advanced biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years, spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mold, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. *Twice a week, or three times a week, each exercise occupying two and one-half hours.*

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY. The second year is devoted to experiments in physiology, and to the study of histology, bacteriology, embryology, and mammalian anatomy. For part of the course, outside reading upon such subjects as seem most desirable for each student may be substituted, or, in particular cases, special work may be assigned. *Required time the same as in course IV.*

Course V. is elective for those who have taken Course IV.

Courses IV. and V. are open to only a limited number of students.

GRADUATE INSTRUCTION. The graduate instruction in the department of biology includes three courses:—

VI. A course of lectures on the senses, instincts, and intelligence of animals, including a discussion of the functions of the nervous system in animals below man. *Twice a week.*

VII. LABORATORY WORK. The laboratory work of the graduate student is of a different character from that of the undergraduate. Any undergraduate work that may have been omitted in his previous

course is first completed, but the student is more independent, and his work is more advanced. In all cases it is expected that there will be some work of independent investigation, either on the part of the student alone, or in conjunction with the Professor in charge.

VIII. BIOLOGICAL SEMINARY. This is open to the graduate students of the biological, geological, and chemical departments. The work includes reviews of scientific publications, reports of experiments, discussions, and occasional lectures. The work is done by students and Professor alike, and the aim is to familiarize the student with current scientific literature and discussion. *Once a week.*

Tabular Statement of the Courses of Study.

Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the Courses of Instruction in that department. The Arabic numerals indicate approximately the whole number of exercises for the year in the respective studies. In addition to those studies which are specified as required, each student must choose enough elective studies to make his whole number of lectures or recitations not less than fourteen, nor more than seventeen, per week. In making up this quota, studies which count for more than the number of exercises actually held, are indicated by numbers added in a parenthesis. Studies marked by a * are omitted the current year.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	132	I. English Language,	50
I. Greek,	132	I. Mathematics,	132

ELECTIVE.

I. German,	99	I. French,	99

SOPHOMORE YEAR.

REQUIRED.

II. Latin,	66	II. Mathematics,	40
II. Greek,	66	I. Physics,	90
Rhetoric,	54	I. Chemistry,	68
Logic,	30		

ELECTIVE.

III. Latin,	66	III. Mathematics,	33
VII. Latin,	17	IV. Mathematics,	99
VIII. Latin,	17	II. Physics,	33
*IX. Latin,	33	Physical Geography,	39
II. German,	66	Botany, etc.,	60
II. French,	66		

JUNIOR YEAR.

REQUIRED.

Constitution of U. S.,	30	I. Geology,	72
Psychology,	54	Physiology,	63
Astronomy,	63		

ELECTIVE.

IV. Latin,	66	Elocution,	66
*V. Latin,	66	I. History,	66 (99)
*VI. Latin,	66	*II. History,	66 (99)
XI. Latin,	66 (99)	Roman Jurisprudence,	66
III. Greek,	99	III. Philosophy,	66
*IV. Greek,	99	V. Mathematics,	66
*V. Greek,	66	VI. Mathematics,	66
VI. Greek,	66	VII. Mathematics,	66
Hebrew,	165	III. Physics,	66
*III. German,	66	*IV. Physics,	66
III. French,	66	V. Physics,	66 or 99
Italian,	66	II. Chemistry,	66 or 99
I. English Literature,	99	Mineralogy,	99
Anglo-Saxon,	66 (99)	Zoology,	66
*Old English,	66 (99)	IV. Biology,	66 or 99

SENIOR YEAR.

REQUIRED.

Political Economy,	70	Ethics,	27
Christian Evidences,	26		

ELECTIVE.

VII. Greek,	93	VIII. Mathematics,	62
IV. German,	62	IX. Mathematics,	93
II. English Literature,	62 (93)	Practical Astronomy,	62 (93)
III. History,	62	VI. Physics,	62 or 93
Finance,	62	III. Chemistry,	62 or 93
Social Science,	31	IV. Chemistry,	93
IV. Philosophy,	62	VI. Chemistry,	31
V. Philosophy,	31	II. Geology,	93
Theism,	31 (62)	V. Biology,	62 or 93

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	132	Physical Geography,	39
I. English Language,	50	Botany, etc.,	60
I. Mathematics,	132		

ELECTIVE.

I. German,	99	I. French,	99
II. German,	66	II. French,	66

SOPHOMORE YEAR.

REQUIRED.

Rhetoric,	54	I. Physics,	90
Logic,	30	I. Chemistry,	68
II. Mathematics,	40		

ELECTIVE.

II. Latin,	66	III. French,	66
III. Latin,	66	III. Mathematics,	33
VII. Latin,	17	IV. Mathematics,	99
VIII. Latin,	17	II. Physics,	33
*IX. Latin,	33	Zoology,	66
*III. German,	66		

JUNIOR YEAR.

REQUIRED.

Constitution of U. S.,	30	I. Geology,	72
Psychology,	54	Physiology,	63
Astronomy,	63		

ELECTIVE.

IV. Latin,	66	*II. History,	66 (99)
*V. Latin,	66	Roman Jurisprudence,	66
*VI. Latin,	66	III. Philosophy,	66
XI. Latin,	66 (99)	V. Mathematics,	66
Hebrew,	165	VI. Mathematics,	66
IV. German,	62	VII. Mathematics,	66
Italian,	66	III. Physics,	66
I. English Literature,	99	*IV. Physics,	66

Anglo-Saxon, - -	66 (99)	V. Physics, - -	66 or 99
*Old English, - -	66 (99)	II. Chemistry, -	66 or 99
Elocution, - - -	66	Mineralogy, - - -	99
I. History, - - -	66 (99)	IV. Biology, -	66 or 99

SENIOR YEAR.

REQUIRED.

Political Economy, -	70	Ethics, - - - -	27
Christian Evidences, -	26		

ELECTIVE.

II. English Literature,	62 (93)	IX. Mathematics, -	93
III. History, - -	62	Practical Astronomy,	- 62 (93)
Finance, - - -	62	VI. Physics, -	62 or 93
Social Science, - -	31	III. Chemistry, -	62 or 93
IV. Philosophy, - -	62	IV. Chemistry, - -	93
V. Philosophy, - -	31	VI. Chemistry, - -	31
Theism, - - -	31 (62)	II. Geology, - -	93
VIII. Mathematics, -	62	V. Biology, - -	62 or 93

SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. English Language, -	50	I. German, or II. French, - - -	99 or 66
II. Mathematics, - -	40		
I. Physics, - - -	90		
I. Chemistry, - -	68	II. German, or I. French, - - -	66 or 99
Physical Geography, -	39		
Botany, etc., - -	60		

Students must take the first two, or the second two, of the above courses in Modern Languages, according as they have passed in the French or the German required for admission. In the former case they must take II. German, in the latter case, II. French, in Sophomore year.

ELECTIVE.

III. Mathematics, -	33	II. Physics, - - -	33
IV. Mathematics, - -	99		

Students taking one or more of these electives may postpone till Sophomore year part of the required work specified above.

SOPHOMORE YEAR.

REQUIRED.

II. German, or II. French,	66	Logic,	30
		Astronomy,	63
	66	I. Geology,	72
Rhetoric,	54	Physiology,	63

ELECTIVE.

*III. German,	66	*IV. Physics,	66
III. French,	66	V. Physics,	66 or 99
V. Mathematics,	66	II. Chemistry,	66 or 99
VI. Mathematics,	66	Mineralogy,	99
VII. Mathematics,	66	Zoology,	66
III. Physics,	66		

JUNIOR YEAR.

REQUIRED.

Constitution of U. S.,	30	Psychology,	54

ELECTIVE.

Hebrew,	165	III. Philosophy,	66
IV. German,	62	VIII. Mathematics,	62
Italian,	66	IX. Mathematics,	93
I. English Literature,	99	Practical Astronomy,	62 (93)
Anglo-Saxon,	66 (99)	VI. Physics,	62 or 93
*Old English,	66 (99)	III. Chemistry,	62 or 93
Elocution,	66	IV. Chemistry,	93
I. History,	66 (99)	VI. Chemistry,	31
*II. History,	66 (99)	II. Geology,	93
Roman Jurisprudence,	66	IV. Biology,	66 or 99

SENIOR YEAR.

REQUIRED.

Political Economy,	70	Ethics,	27
Christian Evidences,	26		

ELECTIVE.

II. English Literature,	62 (93)	V. Philosophy,	31
III. History,	62	Theism,	31 (62)
Finance,	62	V. Chemistry,	62 or 93
Social Science,	31	V. Biology,	62 or 93
IV. Philosophy,	62		

In addition to the courses indicated in the foregoing tabular statement, exercises in English composition and public speaking are required of all the classes, as specified on pages 35, 36, and 37.

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on page 57. In that table each study is assigned to that year to which it belongs in the Classical Course. Exercises named without any sign or initial are daily exercises. Letters following the names of studies indicate the days of the week on which exercises in those studies occur. Letters followed by 2 or 3, indicate that an exercise occurs on the specified day in alternate weeks. The number 2 indicates that the exercise occurs in the second full week of the year, and in every alternate full week thereafter. The number 3 indicates that the first exercise occurs in the third full week. The sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals, preceding the names of certain studies, refer to the numbers of the courses as enumerated in the above statements of the Courses of Instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.

The Physical and Biological Laboratories are open Tuesday, Wednesday, and Thursday, and the Chemical Laboratory is open Monday, Wednesday, and Friday, from 2 P. M. to 5 P. M.

DAILY PROGRAMME.

	SENIORS.	JUNIORS.	SOPHOMORES.	FRESHMEN.
8.	IX. Mathematics. M., W., F. VI. Chemistry. Tu. IV. Chemistry. M., W., F. IV. German. Tu., Th. II. English Literature. 2. M., W.	Physiology. {S. I. Geology. {S. III. Greek. Tu., Th., F. VI. Greek. M., W. Mineralogy. M., W., Th. IV. Latin. M., W. III. French. Tu., Th. V. Mathematics. Tu., F. Italian. F.	I. Physics. {S. I. Chemistry. {S. II. Mathematics. 2. Tu., W., Th. I. Physics. 2. M., F. III. Latin. Tu., Th. Surveying. W.	I. German. 1. M., W., F. I. English Language. Tu. I. English Language. Th. 2.
9.	VII. Greek. Tu., Th., F. Practical Astronomy. Tu., Th.	Psychology. Tu., Th., F. Constitution of U. S. Tu., Th. I. History. M., W. VI. Mathematics. M., W.	II. Greek. M., W. Rhetoric. Tu., Th., F. Logic. Tu., Th.	I. Latin. 1. M., Tu., Th., F. I. Mathematics. 2. Tu., W., Th., F.
10.	Theism. W. III. History. M., Th. Social Science. Tu.	I. English Literature. M., W., Th. III. Physics. Tu., F. Zoology. Tu., F. XI. Latin. Tu., F. VII. Mathematics. M., W. Italian. Th.	II. German. Tu., F. Physical Geography. {M., W., Th. Botany, etc. {M., W., Th. IV. Mathematics. M., W., Th.	I. Greek. 1. M., W., Th., F. Declamation. 4. W. 3.
11.	II. Geology. M., W., Th. II. English Literature. 1. M., W. IV. Philosophy. Tu., F. V. Philosophy. Th.	Hebrew. Zoology. Tu., F. XI. Latin. Tu., F. III. Philosophy. M., W. Declamation. 4. Th. 3.	Botany, etc. M., W., Th. VII. Latin. {M. VIII. Latin. {M. II. Physics. W. II. French. Tu., F. Declamation. 1. Th. 2.	I. Greek. 2. M., W., Th., F. Declamation. 1. W. 3.
12.	Ethics. {W., Th. Evidences. {W., Th. Political Economy. Tu., F. Forensics. M.*	Astronomy. M., Tu., W. Physiology. Th., F. I. Geology. 1.	II. Mathematics. 1. Tu., W., Th. I. Physics. 1. M., F. I. Chemistry.	I. Latin. 2. M., Tu., Th., F. I. Mathematics. 1. Tu., W., Th., F.
2.		I. Geology. 2. Declamation. 2. Th. 3. Declamation. 3. W. 2.	Declamation. 2. Tu. 2. Declamation. 4. Th. 2.	Declamation. 3. Tu. 3. Declamation. 2. W. 3.
3.	Finance. Tu., Th. VIII. Mathematics. M., F.	Elocution. Tu., Th. Anglo-Saxon. Tu., Th. Roman Jurisprudence. M., W. Declamation. 1. W. 3.	II. Latin. Tu., Th. Composition. W.* Declamation. 3. W. 2.	I. French. M., W., F. I. German. 2. M., W., F.

GENERAL REGULATIONS.

SELECTION OF STUDIES.

In making a selection among the elective studies, the following rules are to be regarded:—

A student may take elective studies assigned to a class below his own, as well as those assigned to his own class; but not those assigned to a class above his own, except by special permission of the Faculty. The election must in all cases be made for the whole year, no changes from one department to another being permitted during the year. Studies must be selected whose hours of recitation do not conflict with each other, as indicated by the Daily Programme on page 57. The student's selection must in all cases be subject to the approval of the Faculty.

In order to avoid misunderstanding, each student is required to present to the Secretary of the Faculty, on the first day of the first term, a list of the studies which he desires to take.

EXAMINATIONS.

Examinations, either oral or written, are held in all the studies of the course. The oral examinations are held near the close of the college year, and are conducted before Examining Committees appointed by the Executive Committee of the Trustees. Written examinations are held at the end of each term, and during a specified week in February, according to the times at which the respective studies are completed; but the papers are reserved for inspection by the Examining Committees. No student who has been absent from fifteen per cent. or more of the required exercises in any study, can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In this case the instructor may require the student to pass a preliminary examination before admitting him to the regular examination.

Special examinations will be held during the third term for those who have been absent, by permission, from the regular examinations which have occurred in the previous part of the year.

A special examination will be held, commencing on the Tuesday before the beginning of the first term, for those who have failed to pass any of the examinations of the preceding year. Students who fail to pass at this examination are, in certain cases, required to attend recitations with the next class in the studies in which they are deficient, and to be examined with the class at the regular time.

A student desiring to take more than the prescribed quota of elective studies may present himself at the special examination, at the beginning of the first term, to be examined in advance in any required study, and, on showing evidence of a high degree of proficiency, he may be excused from recitation in that study.

PUBLIC WORSHIP.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city. Each student is allowed to elect what church he will attend, and is required to report such election to the Registrar at the beginning of each college year.

LEAVE OF ABSENCE.

No student is allowed to be absent from college without permission from the President.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	$75 00
Room Rent, for half-room, from $12.00 to $50.00; average,	26 00
Steam-heat; average for half-room,	10 00
General Repairs and Incidental Expenses,	24 00
Use of Library and Reading Rooms,	6 00
Total,	$141 00

Students in Practical Chemistry are charged for the use of apparatus, for chemicals, and for incidentals. This charge averages about eleven dollars a term.

A fee of five dollars a term is charged to each student in Practical Physics, and also to each student in Practical Biology.

Ladies residing in the Ladies' Dormitory are charged at the rate of five dollars, or five dollars and a half, a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Dormitory.

A diploma fee of five dollars is charged to each student at graduation.

Persons holding *free*, *personal*, or *transferable* scholarships are exempt from charges for tuition.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on the day appointed. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board must in all cases be subject to the approval of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Gentlemen rooming in the college buildings provide for themselves furniture and lights.

Board may be obtained in private families at prices varying from $3.00 to $4.50 a week. A large majority of the students board in clubs, at prices ranging from $2.75 to $3.50 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOM.

The Library in Rich Hall contains about thirty-eight thousand volumes. The library hall is open every week-day of term time, except Saturdays, from 10 A. M. to 1 P. M., and from 2.30 to 4.30 P. M.; on Saturdays, from 9 A. M. to 1 P. M. No student may take from the Library more than two books at a time, without special permission; books are loaned for two weeks, with the privilege of renewal, in the case of most books, for two weeks longer.

Books reserved by request of officers of instruction as collateral reading for students in their classes are shelved in the Library reading-room, can be taken out only at the close of library hours, and must be returned upon the opening of the Library.

Students are allowed direct access to the shelves, in order that they may secure the benefit derived from selecting and examining the books themselves.

Visitors are always welcome, and at liberty to consult the Library.

About $1,100 is spent annually for the increase of the Library.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. The second, or Library reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

The Observatory is used for purposes of instruction, and is well equipped therefor. Members of the Junior class have frequent opportunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical Astronomy are instructed in the theory and use of all the instruments in the Observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and

spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

The Biological Laboratory occupies five rooms in Judd Hall, and is capable of accommodating about twenty students. Three rooms are used as a general laboratory and are equipped for the advantageous prosecution of elementary biological work, being supplied with microscopes, micrometers, water baths, warm chambers, dissecting apparatus, etc., together with abundance of material for anatomical and histological study and dissection. The Laboratory has also the use of the large museum collection for comparison and direct study. A fourth room is devoted to physiological experiments, and is equipped with necessary apparatus for such work. A fifth room is used as a Bacteriological Laboratory.

The Physical Laboratory occupies seven rooms on the ground floor of Observatory Hall. It is provided with apparatus for most of the experiments usually undertaken in undergraduate courses, the following being some of the principal pieces used:—Cathetometer, by Bamberg; balance, by Bunge; balance, by Becker Bros.; reversion pendulum, by Société Genevoise; Geissler pump; small goniometer, seven-inch circle, by Elliott Bros.; large goniometer, by Hilger, with 18-inch circle (graduated by Troughton & Simms); heliostat, by Brashear; diffraction gratings; diffraction bench, by Duboscq; Jolly's air thermometer; calorimeter, by Edelmann; most of the important pieces of Koenig's acoustic apparatus; Thomson's mirror galvanometer, Thomson's portable electrometer, sine, tangent, and astatic galvanometers, standard condenser, resistance boxes,—of Elliott Bros.' make; induction coils, by Ruhmkorff and Ritchie; Carhart's standard cell; Weston's ammeter and voltmeter; Kohlrausch's bridge for resistance of liquids; Mascart's quadrant electrometer.

The Laboratory is connected with the observatory clocks, and has the use of the chronograph and spectroscopes belonging to the astronomical department.

The Chemical Laboratory occupies five rooms in Judd Hall, with store-rooms in the basement. A large working-room on the first floor, with a balance-room adjoining, furnishes accommodations for about

twenty-five students in analytical chemistry, and a smaller laboratory affords conveniences for the work of instructors and graduate students. A large room in the basement has recently been furnished and set apart for the laboratory work of the required course in Chemistry.

EXPERIMENT STATION AND EXPERIMENTAL RESEARCH. As stated in more detail in Bulletins, the chemical investigations of the Storrs Agricultural Experiment Station, of which Professor Atwater is Director, are carried on in the chemical laboratory. Investigations are in progress upon the sources of the nitrogen in plants, and the heats of combustion of organic compounds. In order that the former investigation may be extended in lines for which the resources of the State do not suffice, but which have an especial scientific importance, a gift of five hundred dollars has been made by Hon. J. W. Alsop, M. D., of Middletown. Some time since an inquiry into the amounts, costs, chemical composition, and nutritive values of the food of a considerable number of people, mostly wage-workers in New England and in Canada, was made under the joint direction of Col. Carroll D. Wright, Chief of the Massachusetts Bureau of Statistics of Labor, and U. S. Commissioner of Labor, and Professor Atwater. For an inquiry into the best methods for the prosecution of such a research on a more extended scale, a small appropriation has been made by the U. S. Department of Labor, to be expended for work in the chemical laboratory of the college.

MUSEUM.

The Museum of Natural History occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to educational purposes, and are freely accessible to students.

The nucleus of the Departments of Zoölogy and Botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions, in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida,

and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique.

The following is an approximate statement of the number of specimens in the various departments of the Museum:—

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	150
Fishes,	2,100
Insects—pinned and alcoholic,	3,800
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000

Echinoderms,	1,000
Cœlentera,	1,500
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,700
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	10,400
Fossils—Paleozoic,	2,650
Mesozoic,	800
Cenozoic,	2,000

The Museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A number of Scholarships exempting the holders from the charge for tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This Scholarship has been founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is to be given annually to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. Only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates for this Scholarship.

THE SQUIRE SCHOLARSHIP.

This Scholarship, founded by Hon. Watson C. Squire, A. B., has been so far increased by him, that the income of $5,000 will be awarded to that member of the Senior class who shall pass the best examination in Greek, as a traveling scholarship for linguistic study.

THE SENEY SCHOLARSHIPS.

These have been established by George I. Seney, A. M. They are forty-eight in number, and are divided among the classes equally. They will be awarded on the basis of the merit-roll, under such conditions as the founder of the Scholarships has prescribed. Their precise value for any year will depend on the income of the Scholarship Fund. For the present year they will range from fifty to one hundred and fifty-five dollars. It is stipulated by the founder of the Scholarships that no student shall be considered a candidate for any one of them who was not in attendance upon college exercises throughout the year for which the Scholarship is awarded, nor shall any Scholarship, though awarded, be paid to one who is absent from

college during the year, or during any considerable part of the year, in which it is payable. No one who is regularly employed as a preacher or teacher shall, during the year in which he is so occupied, be considered a candidate for any of these Scholarships. Nor shall any student be considered as a candidate for them during any year in which he shall have been the subject of serious college discipline, or in which, by reason of excess of absences, he shall have been excluded from examination.

The Scholarships for the three lower classes will be awarded as soon after the beginning of each academic year as the record of standing for the previous year can be prepared; and will be paid in three installments:—the first, immediately upon the assignment of the Scholarships; the second, at the beginning of the second term; the third, at the beginning of the third term.

The Senior Scholarships will be awarded two weeks before Commencement, and will be paid at that time in one payment.

The College assumes responsibility for the payment of the Scholarships only to the measure of the income of the Scholarship Fund.

The Seney Scholarships have been awarded on the basis of the merit-roll of the year 1889–90, to the following persons:—

Class of 1890.—Stockton Axson, Edward Arthur Bawden, Martha Josephine Beach, John Andrew Bergström, Charles Manning Child, Clara Maria Coggshall, Lillie Belle Conn, Frederic Samuel Goodrich, James Alonzo Hulse, Wendell Phillips Parker, Hester Laurence Raymond, Lewis Gardiner Westgate.

Class of 1891.—George Hamilton Bickford, Charles Woods Coulston, Belle Evangeline Graves, Albert Elmer Hancock, John Evan Jenkins, Linnæus Edford La Fétra, Frank Bowers Littell, Ernest Loren Meritt, John George Mitchell, Isaac Merwin Rayner, Charles Wilfred Savage, Clinton Chandler Stevens.

Class of 1892.—Lena Maud Adams, Arthur Peyton Bryant, George Willets Davison, Charles Myron Drew, Lincoln Robinson Gibbs, Pedro Gillot y Fernandez, William Henry Kidd, Arthur Birdsey Miller, Charles Allison Miller, John Stephenson Pullman, Edward Loranus Rice, Egbert James Tamblyn.

Class of 1893.—Sarah Langton Abbott, Winfred Chandler Akers, George Hubbard Blakeslee, Frederic Cutts, Edgar Van Fossen Du Bois, Charles Gourlay Goodrich, Linwood Beede Jones, Wesley Elwell Lake, Vida Frank Moore, Lewis Johnson Norton, Edwin Oscar Smith, Ashley Horace Thorndike.

COLLEGE HONORS.

PRIZES.

The following prizes will be awarded during the present year:—

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior class whose oration at Commencement shall be deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before Tuesday, June 16th.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior class who shall excel in English Composition. The subject for the essay of 1891 is, "The Relations of Art to Morality." The subject for the essay of 1892 is, "Realism in Imaginative Literature." The essays must be left with the Professor of English Literature on or before the first Monday of the third term.

The Harrington Prize will be awarded to that member of the Senior class who shall excel in History. It will be given in 1891 upon a special examination in the history course marked III. in the present catalogue, page 39.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, A. M., will be awarded to that member of the Senior class who shall write the best essay on Political Economy. The subject for the essay of 1891 is, "State and Local Taxation in the United States." The essays must be left with the instructor of the department on or before the first Monday in May.

A prize will be awarded to that member of the Senior class who shall excel in Christian Evidences.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded to that member of the Senior, Junior, or Sophomore class who shall excel in Natural Science. The examination for this prize this year will be in Geology.

The G. Brown Goode Prize, the gift of G. Brown Goode, LL. D., will be given for the best Original Investigation in the department of Natural History.

Two prizes will be awarded as a first and second prize, respectively, to the two members of the Junior class who shall present the best orations at the annual Junior Exhibition. In the decision of these prizes, both the composition and the delivery of the orations will be considered.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior class who shall excel in English Literature.

The Weeks Prize, the gift of Joseph Dame Weeks, A. M., will be awarded to that member of the Junior class who shall excel in Logic.

A prize will be awarded to that member of the Junior class who shall excel in debate.

The Walkley Prize, the gift of Webster R. Walkley, A. M.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be given to that member of the Junior class who shall excel in Psychology.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded, in the same classes, as a second prize for excellence in Elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore class who shall excel in Greek.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore class who shall excel in Latin.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman class who shall excel in Mathematics.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, A. M., will be awarded to that member of the Freshman class who shall excel in Declamation.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman class who shall be found,

upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in either of the college classes, who shall write the best English poem. The poem must be left with the Professor of English Literature before the Senior Examination.

The designation of the classes to which the prizes are offered is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold either of these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:—

The Rich Prize, to Richard Ellsworth Bell.

The Olin Prize, to Edgar Smith Furnel.

The Harrington Prize, to Martha Josephine Beach.

The Wise Prize, to Edward Arthur Bawden and John Andrew Bergström.

The Joseph D. Weeks Prize, to George Howard Opdyke.

The Prize in Christian Evidences, to Charles Fellows Eggleston.

The Peirce Prize, to Linnæus Edford La Fétra.

The G. Brown Goode Prize, to Charles Manning Child.

The First Junior Exhibition Prize, to Frederick Allen King.

The Second Junior Exhibition Prize, to Albert Elmer Hancock.

The Camp Prize, to George Hamilton Bickford.

The Weeks Prize, to George Hamilton Bickford.

The Prize for Debate, to John Evan Jenkins.

The Walkley Prize, to Albert Elmer Hancock.

The Parker Prize, to Frederic Halsted Tackaberry.

The Scranton Prize, to Albert Lyon Crowell.

The Spinney Prize, to Pedro Gillot y Fernandez.

The Phi Beta Kappa Prize, to Pedro Gillot y Fernandez.

The Rice Prize, to Lena Maud Adams and Charles Allison Miller.

The Sherman Prize, to Wesley Elwell Lake.

The Hibbard Prize, to Frederick Smith Hall.

The Ayres Prize for the present year has been awarded to Arthur Mathews Gates and Henry Archelaus Tirrell.

The Taylor Prize was awarded to Oliver Loveland Welch.

The Squire Scholarship was awarded to Frederic Samuel Goodrich.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to the standing in Composition and Declamation subsequent to the Freshman year. The speakers at Commencement are selected according to the standing in Composition and Declamation subsequent to the Sophomore year. The number of speakers at each of these public exercises is limited to ten. The speakers appointed last year were:—

FOR THE JUNIOR EXHIBITION,—Lloyd Hawley Andrews, George Hamilton Bickford, Albert Elmer Hancock, Ralph Barnes Hibbard, John Evan Jenkins, Frederick Allen King, Linnæus Edford La Fétra, Isaac Merwin Rayner, Oliver Cromwell Webster.

FOR COMMENCEMENT,—Stockton Axson, Francis Asbury Bagnall, Edward Arthur Bawden, Richard Ellsworth Bell, Edgar Smith Furnel, Frederic Samuel Goodrich, Walter Everard Morse, Wendell Phillips Parker, Edwin Sloan Tasker, Wilson Wallace Thompson.

HONORS IN SCHOLARSHIP.

1. HONORS IN GENERAL SCHOLARSHIP.—There are two grades of honor conferred at graduation, based upon the general scholarship of the student throughout his whole course. Eighty-eight per cent. of the maximum standing entitles a student to the first grade of honor, and eighty-three per cent. to the second grade.*

2. HONORS IN SPECIAL DEPARTMENTS.—Special honors are also given at graduation in each of the following departments:—

Latin; Greek; Modern Languages; English; History, Political and Social Science; Philosophy; Mathematics; Physics; Chemistry; Biology; Geology.

The conditions upon which these special honors are given are as follows:—

(1.) The candidate must apply to the officer of the department in which he proposes to take honors, not later than the first Monday in May in the Junior year.

(2.) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must

*The scale of marking in practical use is such that the best students in any department receive about ninety-two per cent. of the absolute maximum.

maintain an average standing of 83 per cent. after the beginning of his Sophomore year; provided, however, that if he maintain a standing of 88 per cent. in such of these studies as he pursues in his Junior and Senior years, the standing of the Sophomore year may be ignored.

(3.) No student shall be given special honors who shall fail to pass in any study of the last two years of the course.

(4.) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading or investigation as shall be prescribed by the officer in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

(5.) In addition to other requirements, every candidate for special honors shall be required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination shall be oral, and shall be conducted in the presence of a committee of the Faculty.

(6.) No examination for special honors shall be given, and no thesis or other work in preparation for special honors shall be received, after the second Saturday preceding Commencement.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. All the courses in Latin except Course II.

2. The required courses in Greek; or the first two courses in German, the first two courses in French, and the first course in Italian.

Candidates who pursue satisfactorily the above-mentioned courses may be awarded the special honor in Latin without submitting to further tests. It will be noted that under these conditions prospective applicants for the special honor should elect III. Latin in the Sophomore year.

Greek.—1. All the courses in Greek, except one of the courses in Biblical Greek.

2. The required courses in Latin.

Modern Languages.—1. All the courses in Modern Languages.

2. The Junior elective course in English Literature.

English.—1. The required courses in English, including Composition.

2. Either of the following groups of elective courses:—

(a.) Anglo-Saxon, Early English, and the Junior and Senior courses in English Literature.

(b.) Anglo-Saxon, Early English, the Junior course in English Literature, and German I. and II.

(c.) The Junior and Senior courses in English Literature, Anglo-Saxon or Early English, and English History.

History, and Political and Social Science.—1. The required courses in Constitution and Political Economy.

2. The elective courses in History.

3. The elective courses in Finance and Social Science.

Philosophy.—1. The required courses in Logic, Psychology, Ethics, and Christian Evidences.

2. The elective courses in Philosophy.

Mathematics.—1. All the courses in Mathematics and Astronomy, except Courses II. and V.

2. The required course in Physics.

Physics.—1. All the courses in Physics.

2. Course I. in Chemistry.

3. Either Course II. in Chemistry, or Course IV. or Course V. in Mathematics.

Chemistry.—1. All the courses in Chemistry.

2. The required course in Physics.

3. One elective course in Physics, or one in Practical Biology.

Geology.—1. The required courses in Geology and Physiology.

2. The elective courses in Zoology, and in Physical Geography and Botany.

3. The elective courses in Mineralogy and Advanced Geology.

4. The elective course in Qualitative Analysis, or one year in Practical Biology.

Biology.—1–2. Same as for Geology.

3. Two years of Practical Biology.

4. The elective course in Qualitative Analysis, or that in Physiological Chemistry.

The honors, both general and special, are stated in the diploma; and the names of students who take honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:—

GENERAL SCHOLARSHIP.—*First Grade.* Stockton Axson, Edward Arthur Bawden, Martha Josephine Beach, John Andrew Bergström,

Charles Manning Child, Clara Maria Coggshall, Lillie Belle Conn, Frederic Samuel Goodrich.

Second Grade. William Wellington Alexander, Anna Harris Andrews, Francis Asbury Bagnall, Mary Romer Beach, Frank Chapin Bray, Richard Watson Cooper, Charles Fellows Eggleston, Fred Ernest Fuller, Edgar Smith Furnel, John Morgan Harris, James Alonzo Hulse, Emory Leslie Meade, Walter Everard Morse, Lyon Levi Norton, Wendell Phillips Parker, Hester Laurence Raymond, Edwin Sloan Tasker, Lewis Gardiner Westgate.

SPECIAL DEPARTMENTS.—*Philosophy.*—1. Studies in Theism.

To Edward Arthur Bawden.

2. Studies in Physiological Psychology.

To John Andrew Bergström.

3. Studies in the Theory of Education.

To Charles Fellows Eggleston.

English Literature.—1. The Writings of Jonathan Swift and Alexander Pope, with essay on the Political Consistency of Swift.

To Martha Josephine Beach.

2. The Writings of Thomas Carlyle, with essay on the Religion of Carlyle.

To Frederic Samuel Goodrich.

3. The Writings of William Wordsworth, with essay on Wordsworth's Treatment of Nature.

To Wilson Wallace Thompson.

Mathematics.—Projective Geometry and Theory of Equations.

To Francis Asbury Bagnall, James Alonzo Hulse, and Wendell Phillips Parker.

Chemistry.—1. The preparation of a series of compounds occurring in the animal body.

To Charles Manning Child.

2. Laboratory work, with thesis on The Carbonyl Group in Organic Compounds.

To Frank Burnett Dains.

Geology.—Paleontology, with thesis on the Bearings of Paleontology on the Theory of Evolution.

To Lewis Gardiner Westgate.

Biology.—1. Physiology of the Nervous Systems of Myriopoda.

To Charles Manning Child.

2. Heredity.

To Lillie Belle Conn.

DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

MASTER OF ARTS AND MASTER OF SCIENCE.—Until Commencement Day, 1891, the degree of Master of Arts may be conferred on any Bachelor of Arts, of three years' standing or more, who has been engaged since graduation in some literary occupation. Persons who intend to take this degree must apply to the President as early as the Monday preceding Commencement, and advance the usual fee.

After 1891, the degrees of Master of Arts and Master of Science will be conferred in accordance with the following regulations adopted by the Trustees at their annual meeting in June, 1889:—

1. The degree of Master of Arts may be conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. Said course of study shall be under the full direction of a Committee of the Faculty on Graduate Instruction, to be composed of three permanent members with the addition of the instructor in charge of each department in which the candidate shall pursue work. Evidence of the candidate's proficiency in the approved studies shall be given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the Committee may prescribe. All such tests of proficiency shall be under the direction of the Committee, and they shall report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who shall pass such additional examinations as the Committee may prescribe, the degree of Master of Arts may be conferred

on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts may also be conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations shall hold in the case of non-resident as in the case of resident students. The degree may also be conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate shall have spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science may be conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions that govern in the case of the degree of Master of Arts.

5. A fee of ten dollars shall be required from each graduate student upon promotion to the Master's degree.

In accordance with the above regulations, the Faculty have appointed Professors Rice, Merrill, and Armstrong permanent members of the Committee on Graduate Instruction, and to them, or to the head of any one of the departments of instruction, may be addressed communications from prospective graduate students.

At the last Commencement, degrees were conferred as follows:—

THE DEGREE OF A. B. was conferred on:—William Wellington Alexander, Stockton Axson, Francis Asbury Bagnall, Edward Arthur Bawden, Mary Romer Beach, Robert James Beach, Jesse Leander Beers, Richard Ellsworth Bell, John Andrew Bergström, Frank Chapin Bray, Gideon Wales Coons, Richard Watson Cooper, Edwin Parker Currier, Charles Fellows Eggleston, Charles Jessup Foster, Fred Ernest Fuller, Edgar Smith Furnel, Frederick Augustus Gascoigne, Frederic Samuel Goodrich, Winfield Scott Goss, Robert Paul Green, Frederick Watson Hannan, John Morgan Harris, Emory Leslie Meade, William Andrew Montgomery, Walter Everard Morse, Leonard Colburn Murdock, Lyon Levi Norton, Wendell Phillips Parker, George Luther Peck, Hester Laurence Raymond, Willis Fenton Roe, Edwin Sloan Tasker, Wilson Wallace Thompson, Lewis Gardiner Westgate, John Quinby Wood.

THE DEGREE OF PH. B. was conferred on:—Anna Harris Andrews, Charles Elmore Barto, Martha Josephine Beach, Charles Manning Child, Clara Maria Coggshall, Lillie Belle Conn, Lewis Nelson Crane, Frank Burnett Dains, George Howard Opdyke, John Jackson Tinker.

THE DEGREE OF B. S. was conferred on:—Howard Townsend Alexander, James Chandler Graham, Samuel Boyer Harvey, James Alonzo Hulse, Carl Noyes Quimby.

THE DEGREE OF M. S., on examination, was conferred on Aaron Louis Treadwell.

THE DEGREE OF A. M., in Course, was conferred on:—Buel Owen Campbell, Dwight Friend Carroll, Herbert Edgar Cobb, Jacob Augustus Cole, Henry Buckley Coons, Edmund Richard Foley, Robert Lewis Gilbert, Howard Osman Lantz, Elmer Frederic Newell, Edward Summerfield Ninde, Harvey Hallet Paine, Ralph Hayward Pomeroy, Francis Henry Richmond, Herbert Dwight Rockwell, Benjamin Franklin Sharpe, Carlos Hotchkiss Storrs, Albert Welcome Thayer, Calvin Spencer Videon, Herbert Welch, George William Wood, Wesley Ellsworth Woodruff, Robert Lewis Zink,—of the class of '87; also on Loyal Lensey Davis, of the class of '83; and Charles Edward Spaulding, of the class of '86.

THE DEGREE OF A. M., HONORIS CAUSA, was conferred on Rev. Timothy Prescott Frost, of Brooklyn, N. Y., and Robert Lauder, M. D., of Bridgeport.

THE DEGREE OF D. D. was conferred on:—Rev. Edson Wyllys Burr, A. M., of Elizabeth, N. J.; Rev. Henry Alanson Starks, A. M., of Burlington, Vt.; Rev. Morris Watson Prince, A. M., of Stamford.

THE DEGREE OF LL. D. was conferred on Henry Wade Rogers, A. M., Dean of the Department of Law of the University of Michigan.

OBITUARY RECORD.—Obituary notices of deceased graduates of the University are published annually. All persons who can supply information appropriate to the future editions of this Record, are urgently requested to communicate the same to Professor E. T. Merrill.

ALUMNI RECORD.—Through the liberality of Orange Judd, Esq., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former stu-

dents not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Librarian, Professor L. O. Kuhns. The price of the Record, when sent by mail, is two dollars and twenty-five cents.

Information in regard to changes of residence or address of Alumni, or to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with the Librarian, Professor L. O. Kuhns.

CALENDAR.

1890.

Sept. 25, Thursday—First Term commenced.
Dec. 23, Tuesday—First Term will close.

VACATION OF TWO WEEKS.

1891.

Jan. 6, Tuesday—Second Term will commence.
Jan. 29, Thursday—Day of Prayer for Colleges.
Feb. 9—Feb. 14,—Mid-year Examinations.
Mar. 24, Tuesday—Junior Exhibition.
Mar. 25, Wednesday—Second Term will close.

VACATION OF ONE WEEK.

April 2, Thursday—Third Term will commence.
June 3, Wednesday—Senior Examination will commence.
June 3, Wednesday—Prize Debate and Declamation.
June 16, Tuesday—Annual Examination will commence.
June 19, Friday—Prize Declamation.
June 21, Sunday Morning—Baccalaureate Sermon.
June 21, Sunday Evening—University Sermon.
June 22, Monday—Class Day.
June 23, Tuesday—Anniversaries of the Literary Societies.
June 23, Tuesday—Meeting of the Board of Trustees at 9 o'clock, A. M.
June 23, Tuesday—Business Meeting and Anniversary of the Alumni Association.
June 23, Tuesday—Reunion of Classes of 1841, '66, '76, '84, and '88.
June 24, The last Wednesday of June—COMMENCEMENT.
June 25, Thursday—Examination of candidates for admission will commence.

VACATION OF TWELVE WEEKS.

Sept. 15, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 16, Wednesday—Examination of candidates for admission will commence.
Sept. 17, Thursday—First Term will commence.
Dec. 23, Wednesday—First Term will close.

CATALOGUE

—OF—

WESLEYAN UNIVERSITY,

Compliments of

President Raymond.

MIDDLETOWN, CONN.,
M. DCCC. XCI.

CATALOGUE

—OF—

WESLEYAN UNIVERSITY,

1891-92.

MIDDLETOWN, CONN.,
M. DCCC. XCI.

PRESS
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Term Expires in 1892.

ORANGE JUDD, M. A.
JOHN CLARK RAND, M. A.
REV. ANDREW LONGACRE, D. D.
REV. JAMES MONROE BUCKLEY, D. D., LL. D.
JOSEPH SHIPLEY SPINNEY.
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Term Expires in 1893.

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HON. GEORGE WEST.
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Term Expires in 1892.

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Term Expires in 1894.

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* DECEASED.

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Term Begins in 1892.

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NOTE.—Trustees whose names are marked with a § were elected by the alumni; those whose names are marked with a † were elected by the Patronizing Conferences; all others were elected by the Board.

The term of office is five years, the official year beginning on the Tuesday preceding the Annual Commencement.

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* DECEASED.

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(11 J. H.) 31 College Place.

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OLIN PROFESSOR OF ENGLISH LITERATURE.
(56 N. C.) 342 High St.

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FOSS PROFESSOR OF PHYSICS.

197 High St.

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(13 J. H.) 167 High St.

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ROBERT RICH PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE.

(42 N. C.) 11 Pearl St.

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(8 S. C.) 174 High St.

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ASSOCIATE PROFESSOR OF THE ENGLISH LANGUAGE.

(26 N. C.) 11 Pearl St.

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199 South Main St.

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(Library) 239 College St.

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(41 N. C.) 9 Park Place.

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(Chem. Lab.) 242 High St.

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19 O. H.

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B O. H.

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INSTRUCTOR IN ECONOMICS AND SOCIAL SCIENCE.
(9 S. C.) 231 High St.

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TUTOR IN GREEK, AND REGISTRAR.
22 N. C.

CHARLES MANNING CHILD, PH. B.,
ASSISTANT IN BIOLOGY.
10 O. H.

FRANK BURNETT DAINS, M. S.,
ASSISTANT IN CHEMISTRY.
(Chem. Lab.) 109 Broad St.

FREDERICK ALLEN KING, B. A.,
ASSISTANT LIBRARIAN.
(Library) 17 O. H.

CHARLES WILFRED SAVAGE, B. S.,
ASSISTANT IN PHYSICS.
10 O. H.

OLIN SAFFORD BLAKESLEE,
MECHANICIAN IN THE DEPARTMENT OF PHYSICS.
15 O. H.

STUDENTS.

GRADUATE STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Stockton Axson, B. A., ENGLISH LANGUAGE AND LITERATURE.	*Savannah, Ga.*	*213 College St.*
Charles Manning Child, Ph. B., PHYSIOLOGY AND PSYCHOLOGY.	*Middletown.*	10 O. H.
Frank Burnett Dains, M. S., CHEMISTRY.	*Middletown.*	*109 Broad St.*
James Chandler Graham, B. S., GEOLOGY AND PHYSICS.	*Middletown.*	*178 Church St.*
John Evan Jenkins, Ph. B., HISTORY AND POLITICAL ECONOMY.	*Shamokin, Pa.*	*25 College Place.*
Frederick Allen King, B. A., ENGLISH LITERATURE.	*Thompsonville.*	17 O. H.
Ernest Loren Meritt, B. A., LATIN AND GREEK.	*West Eaton, N. Y.*	*332 High St.*
Charles Wilfred Savage, B. S., PHYSICS AND MATHEMATICS.	*East Berlin.*	10 O. H.
Harry Monmouth Smith, B. A., CHEMISTRY.	*Middletown.*	*68 Pearl St.*
Tibbitts Walker, B. A., GREEK AND HISTORY.	*Saybrook, O.*	*22 Wyllys Ave.*

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
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Thomas Hanlon Atkinson,	*Jersey City, N. J.*	*58 Wyllys Ave.*
John Hendley Barnhart,	*Tarrytown, N. Y.*	*171 High St.*
† Arthur Peyton Bryant,	*Newbury, Vt.*	D O. H.
David Jacobus Carlough,	*Paterson, N. J.*	B. Θ. Π. *House.*
George William Carter,	*Middletown.*	*260 William St.*
Samuel James Allen Conner,	*Chicago, Ill.*	9 O. H.
Alfred Cookman,	*Philadelphia, Pa.*	A. Δ. Φ. *House.*
Albert Lyon Crowell,	*Melrose, Mass.*	17 O. H.
George Willets Davison,	*Rockville Center, N. Y.*	*250 High St.*
§ Charles Myron Drew,	*Minneapolis, Minn.*	*25 College Place.*
Willard Baker Dukeshire,	*Maitland, N. S.*	17 N. C.
George Mahon Eggleston,	*Waterbury.*	18 O. H.
Herbert Charles Eldridge,	*Boston, Mass.*	*58 Wyllys Ave.*
Elbridge Sears Fernald,	*Winterport, Me.*	*178 Church St.*
Frederic Hoole Floy,	*Elizabeth, N. J.*	*213 College St.*
† Frank Albert Galloway,	*Lowville, N. Y.*	B. Θ. Π. *House.*
Lincoln Robinson Gibbs,	*Wiscasset, Me.*	*58 Wyllys Ave.*
Pedro Gillot y Fernandez,	*Guantdnamo, Cuba.*	*204 Pearl St.*
George Seymour Godard,	*North Granby.*	Δ. K. E. *House.*
Howard David Gordon,	*Hazardville.*	B. Θ. Π. *House.*
Ralph Morgan Grant,	*Wapping.*	*178 Church St.*
§ Harvey Carson Grumbine,	*Mt. Zion, Pa.*	X. Ψ. *Lodge.*
§ Robert Henderson Guibord,	*Plattsburgh, N. Y.*	*250 High St.*
† William Henry Hall,	*So. Willington.*	*306 William St.*
Archibald Clinton Harte,	*Catasauqua, Pa.*	*238 High St.*
Theodore Sommers Henderson,	*Orange, N. J.*	*250 High St.*
Charles Stanton Hill,	*Auburn, Me.*	X. Ψ. *Lodge.*
Arthur John Holden,	*Bennington, Vt.*	*213 College St.*

NAMES.	RESIDENCES.	ROOMS.
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Nelson Chamberlin Hubbard,	*Wheeling, W. Va.*	*245 College St.*
† Duncan Starr Johnson,	*Cromwell.*	X. Ψ. *Lodge.*
Henry Fowle Durant Kelsey,	*Boston, Mass.*	34 N. C.
William Henry Kidd,	*Middletown.*	*292 William St.*
August Kullman,	*Vineland, N. J.*	*296 William St.*
William Francis Little,	*Loysburg, Pa.*	Ψ. Υ. *House.*
Arthur Birdsey Miller,	*Middlefield.*	D O. H.
§ Charles Allison Miller,	*Good Ground, N. Y.*	Δ. K. E. *House.*
Henry Winfield Millison,	*W. Philadelphia, Pa.*	13 N. C.
§ Robert McDonald Moore, Jr.,	*Elizabeth, N. J.*	30 N. C.
Hubert Barney Munson,	*Middletown.*	Δ. K. E. *House.*
Joseph White Naramore,	*Sing Sing, N. Y.*	Δ. K. E. *House.*
Samuel Atkinson Noon,	*Gloucester, Mass.*	C O. H.
Clifford Ives Parshley,	*Middletown.*	28 N. C.
§ Jay William Pierce,	*Corry, Pa.*	14 N. C.
John Stephenson Pullman,	*New Britain.*	A. Δ. Φ. *House.*
Isaac Merwin Rayner,	*Greenport, N. Y.*	*51 Wyllys Ave.*
Edward Loranus Rice,	*Middletown.*	*31 College Place.*
Everett Hallerton Scott,	*Norwich.*	*109 Broad St.*
Jewsuke Shimata,	*Yamaguchi, Japan.*	16 N. C.
Jonathan Hugh Slater,	*Hensonville, N. Y.*	Δ. K. E. *House.*
§ Frederic Halsted Tackaberry,	*New York, N. Y.*	*306 William St.*
§ Egbert James Tamblyn,	*Hackettstown, N. J.*	A. Δ. Φ. *House.*
Alfred Ernest Taylor,	*Gildersleeve.*	D O. H.
Heber Ives Thayer,	*Higganum.*	X. Ψ. *Lodge.*
Gordon Lewis Thompson,	*Middletown.*	Δ. K. E. *House.*
Roger Everett Thompson,	*Franklin Falls, N. H.*	17 N. C.
Olin Freeman Tower,	*Helena, Mont.*	*256 High St.*
William Dyson Tuckey,	*Churchtown, Pa.*	*51 Wyllys Ave.*
Samuel J. Watson,	*Middletown.*	*295 William St.*
Lena Maud Adams,	*Wethersfield.*	*274 High St.*
Eva Dilks,	*Cedarville, N. J.*	*274 High St.*
Lillian Wainright Hart,	*New Britain.*	*274 High St.*

JUNIOR CLASS.

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Franklin Barber,	*Fort Edward, N. Y.*	Δ. K. E. *House.*
George Hubbard Blakeslee,	*East Greenwich, R. I.*	*31 College Place.*
§ Charles Henry Colt,	*Winsted.*	A. Δ. Φ. *House.*
Frederic Cutts,	*Middletown.*	*168 Broad St.*
§ William Butler Davis,	*Middletown.*	*182 Washington St.*
Edgar Van Fossen Du Bois,	*Philadelphia, Pa.*	*242 High St.*
George Nelson Edwards,	*East Haddam.*	38 N. C.
† William Ephraim Fairbank,	*Middletown.*	*Industrial School.*
Clifford Curtis Gilbert,	*Middletown.*	23 N. C.
§ Charles Gourlay Goodrich,	*Waterbury.*	21 N. C.
William Flowers Groves,	*Wilmington, Del.*	——
§ Lorenzo Walter Hadley,	*Frankfort, Me.*	*25 College Place.*
Frederick Smith Hall,	*Montclair, N. J.*	*238 High St.*
§ Jetur White Hand,	*Bridgehampton, N. Y.*	38 N. C.
§ Hervey Howard,	*Milford, Me.*	Δ. K. E. *House.*
David Hughes,	*Blackinton, Mass.*	8 N. C.
Freeman Touron Hulse,	*Bay Shore, N. Y.*	*242 Court St.*
Linwood Beede Jones,	*Winthrop, Me.*	*231 College St.*
Charles Pitman Lake,	*Burlington, N. J.*	*25 College Place.*
Wesley Elwell Lake,	*Burlington, N. J.*	*25 College Place.*
James Adelbert Leach,	*Bucksport, Me.*	44 N. C.
§ Daniel Acker Lehman,	*Chambersburg, Pa.*	46 N. C.
Martin Oliver Lepley,	*New Berlin, Pa.*	*238 High St.*
Albert Emory Loveland,	*Fair Haven.*	23 N. C.
William Jeremiah Millard,	*New York, N. Y.*	*58 Wyllys Ave.*
George Mooney,	*New York, N. Y.*	9 O. H.
George Henry Moore,	*St. Johnsbury, Vt.*	*46 Wyllys Ave.*
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† Arthur Isaac Powers,	*North Dana, Mass.*	B. Θ. Π. *House.*

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† Edwin Oscar Smith,	*Albany, N. Y.*	*58 Wyllys Ave.*
Arthur Thomas Talmadge,	*Westfield, Mass.*	*25 College Place.*
Harry Arthur Thompson,	*Glenolden, Pa.*	*231 College St.*
Ashley Horace Thorndike,	*Lynn, Mass.*	*25 College Place.*
John Watson Waters,	*New Britain.*	X. Ψ. *Lodge.*
Leon Irving Wood,	*Waterbury.*	*109 Broad St.*
Sarah Langton Abbott,	*Rochester, N. H.*	*274 High St.*
Mattie Lincoln Hills,	*Middletown.*	*64 Church St.*
§ Vida Frank Moore,	*Steuben, Me.*	*274 High St.*
Maud Eliza Muzzy,	*Searsmont, Me.*	*274 High St.*
Mary Pembroke O'Flaherty,	*Hartford.*	*274 High St.*

SOPHOMORE CLASS.

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§ Julian Aznar,	*Merida, Mexico.*	*25 College Place.*
James Gordon Baldwin,	*Middletown.*	*41 Broad St.*
Ernest Bawden,	*Lykens, Pa.*	43 N. C.
Charles Augustus Bidwell,	*Middletown.*	*171 Broad St.*
Benjamin Robert Briggs,	*Rochester, N. Y.*	Δ. K. E. *House.*
† Daniel Dorrance Bronson,	*Lowville, N. Y.*	27 N. C.
Ernest Charles Carpenter,	*Bridgewater Corners, Vt.*	*232 College St.*
Edwin Foster Chase,	*San Diego, Cal.*	*197 High St.*
Joseph Edgar Crocker,	*St. Albans, Me.*	X. Ψ. *Lodge.*
Charles Wesley Delano,	*Worcester, Mass.*	A. Δ. Φ. *House.*
John Payson Drake,	*Bristol, N. H.*	29 N. C.
Abraham Howry Espenshade,	*Gordonville, Pa.*	X. Ψ. *Lodge.*
† Willie Merrill Esten,	*Glendale, R. I.*	*66 Wyllys Ave.*
William Wright Fisher,	*Drawbridge, Del.*	*22 Wyllys Ave.*
Robert Moses French,	*Kingston, N. H.*	X. Ψ. *Lodge.*

NAMES.	RESIDENCES.	ROOMS.
Fredric Worthen Frost,	*Newport, N. H.*	*306 William St.*
Arthur Mathews Gates,	*Niantic.*	33 N. C.
Lewis Edward Gordon,	*Hazardville.*	*58 Wyllys Ave.*
Roscoe Allan Grant,	*Montpelier, Vt.*	*232 College St.*
§ Joseph Hubbard Hefflon,	*Deep River.*	58 N. C.
† Rupert Henry Hopkins,	*Miller's Place, N. Y.*	45 N. C.
Frank Miller Horr,	*Boston, Mass.*	A. Δ. Φ. *House.*
Arthur Leolin Howe,	*Gardner, Mass.*	29 N. C.
Charles Chase Hurlbut,	*Plainfield, N. J.*	*306 William St.*
Theodore Horace Jameson,	*Honeoye Falls, N. Y.*	*306 William St.*
§ George Oglevie Jarvis,	*Portland.*	35 N. C.
Wilbur Clark Johnson,	*Winthrop, Mass.*	60 N. C.
Charles Hubbard Judd,	*Middletown.*	*308 William St.*
Frederic Lawrence Knowles,	*Tilton, N. H.*	*306 William St.*
§ Willis Thomas Lee,	*Brooklyn, Pa.*	*256 High St.*
Alexander Henry Leo,	*Philadelphia, Pa.*	*242 High St.*
Lewis Marshall Lounsbury,	*Bridgeport.*	45 N. C.
Ralph Fernald Lowe,	*York, Me.*	32 N. C.
Victor Nathan Lucia,	*Northampton, Mass.*	B. Θ. Π. *House.*
George Carlton McDonald,	*Albany, Vt.*	*66 Wyllys Ave.*
Irving Avard Meeker,	*Glen Ridge, N. J.*	*25 College Place.*
Benjamin Franklin Meredith,	*Norristown, Pa.*	*238 High St.*
Leonard Bowdoin Moulton,	*Bucksport, Me.*	37 N. C.
Will M. Newton,	*Barnard, Vt.*	*88 Wyllys Ave.*
Edwin Bryant Nichols,	*Hartford.*	36 N. C.
Frederick Henry Sawyer,	*Thomaston.*	48 N. C.
Wilbur John Sawyer,	*Thomaston.*	48 N. C.
Alfred Jacob Saxe,	*Walden, N. Y.*	43 N. C.
William Hamilton Smith,	*West Fairlee, Vt.*	X. Ψ. *Lodge.*
William Leonard Snow,	*Brockton, Mass.*	*256 High St.*
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§ Clayton Davis Standish,	*Meriden.*	X. Ψ. *Lodge.*
§ John Daniel Stark,	*Pittston, Pa.*	B. Θ. Π. *House.*
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§ William Hill Taylor,	*Cambridge, O.*	*238 High St.*
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Henry Archelaus Tirrell,	*Norwich.*	33 N. C.
Edwin Cuyler Treat,	*New York, N. Y.*	*238 High St.*

NAMES.	RESIDENCES.	ROOMS.
Harry Reed Van Deusen,	*Little Meadows, Pa.*	Δ. K. E. *House.*
John Gillen Walsh,	*Middletown.*	*160 Lincoln St.*
Ralph Herbert White,	*Philadelphia, Pa.*	8 N. C.
Claude Lucas Wilson,	*Middletown.*	*5 Bailey Ave.*
§ Mary Eva Cramer,	*Portland.*	*274 High St.*
§ Alice Cora Fuller,	*Fitchburg, Mass.*	*274 High St.*
§ Florence Alberta Graves,	*Clinton, Ia.*	*274 High St.*
Susie Jane Mantle,	*Portland, Me.*	*274 High St.*
† Lizzie Chapin Rice,	*Middletown.*	*342 Main St.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Samuel Le Roy Ackerly,	*Northport, N. Y.*	*197 High St.*
John Abraham Anderson,	*Brooklyn, N. Y.*	*22 Wyllys Ave.*
Oliver Luther Austin,	*Yonkers, N. Y.*	10 S. C.
James Lincoln Bahret,	*Poughkeepsie, N. Y.*	15 N. C.
Eldred Lewis Manley Barnes,	*Montpelier, Vt.*	*66 Wyllys Ave.*
Le Roy Mason Beeman,	*Montpelier, Vt.*	*88 Wyllys Ave.*
James Hough Bunce, Jr.,	*Middletown.*	*107 High St.*
Allen Chase,	*Bucksport, Me.*	47 N. C.
§ Charles Albert Chase,	*Bucksport, Me.*	47 N. C.
Clifford Pease Clark,	*Ludlow, Mass.*	62 N. C.
§ Walter Eli Clark,	*Chaplin.*	*295 William St.*
Edward Francis Coffin,	*Worcester, Mass.*	51 N. C.
Arthur Bëebe Darling,	*Mexico, N. Y.*	50 N. C.
George Roscoe Davis,	*Washington, D. C.*	63 N. C.
Stephen Brooks Davis, Jr.,	*Middletown.*	*252 College St.*
Frank Willis Doane,	*Middletown.*	*231 College St.*
Frank Merritt Dyer,	*Binghamton, N. Y.*	12 N. C.
§ Theodore Gustavus Eiswald,	*Atlanta, Ga.*	*22 Wyllys Ave.*
James Pendleton Erskine,	*Searsport, Me.*	37 N. C.
Edwin Henry Fretz,	*Chalfont, Pa.*	Δ. K. E. *House.*

NAMES.	RESIDENCES.	ROOMS.
Edward Justus Gale,	*Barre, Vt.*	57 N. C.
Frank Bradley Garfield,	*East Templeton, Mass.*	54 N. C.
Horatio Knight Garnier,	*Passaic, N. J.*	*173 High St.*
Norman Everett Gilbert,	*Middletown.*	23 N. C.
Andrew Buchanan White Gillies,	*Rochester, N. Y.*	31 N. C.
§ Alfred Willis Guibord,	*Plattsburgh, N. Y.*	*250 High St.*
§ Thomas Jose Hambley,	*Niantic.*	15 N. C.
§ William Judson Hampton,	*Waterville.*	*242 Court St.*
§ Henry Ingraham Harriman,	*Brooklyn, N. Y.*	*22 Wyllys Ave.*
William Henry Hayes,	*New York, N. Y.*	*68 High St.*
William Alexander Heath,	*Kennedy, N. Y.*	46 N. C.
Theodore Charles Hoffman,	*Rockville.*	49 N. C.
Charles Otis Judkins,	*Bristol, N. H.*	*306 William St.*
§ Frank Thomas Kurt,	*Middletown.*	X. Ψ. *Lodge.*
George Nelson Lapham,	*Kent's Hill, Me.*	55 N. C.
§ David Lewis Maitland,	*Middletown.*	*281 William St.*
Hiram Emery Miller,	*West Winterport, Me.*	63 N. C.
Alvin Jay Neff,	*Middletown.*	*68 High St.*
Warren Roberts Neff,	*Passaic, N. J.*	64 N. C.
Samuel Bowman Opdyke,	*Easton, Pa.*	59 N. C.
William Willett Peck,	*Port Jervis, N. Y.*	60 N. C.
Daniel Hays Piper,	*Middletown.*	2 N. C.
§ Arthur Cleveland Pomeroy,	*Brooklyn, N. Y.*	16 O. H.
§ George Hale Ryder,	*Hartford.*	49 N. C.
Arthur Henry Scudder,	*Roxbury, N. Y.*	*15 Pearl St.*
Colbert Searles,	*Livermore Falls, Me.*	51 N. C.
John Foster Searles,	*Brooklyn, N. Y.*	18 O. H.
Warren French Sheldon,	*Forestville.*	54 N. C.
Ernest Ketcham Smith,	*Marlboro, Mass.*	64 N. C.
George Benton Smith,	*New Britain.*	57 N. C.
Robert Newhall Smith,	*Carmel, N. Y.*	16 O. H.
Verona J. Smith,	*Gloversville, N. Y.*	50 N. C.
§ Shirley Squire,	*Seattle, Wash.*	A. Δ. Φ. *House.*
§ Ebenezer Louis Stevens,	*Camden, N. Y.*	*15 Pearl St.*
Howard Anderson Sutton,	*Haverford College, Pa.*	10 S. C.
Henry Allen Thayer,	*East Blackstone, Mass.*	*51 Wyllys Ave.*
Edward Lee Thorndike,	*Lynn, Mass.*	*25 College Place.*
Joseph King Van Denburg,	*Fort Edward, N. Y.*	62 N. C.

NAMES.	RESIDENCES.	ROOMS.
Merle Bowman Waltz,	*Quincy, Ill.*	59 N. C.
John Henry Ward,	*Coeymans Junction, N. Y.*	52 N. C.
§ William Edwin Watt,	*Carbondale, Pa.*	B. Θ. Π. *House.*
§ Harry Adelbert Watts,	*Portsmouth, N. H.*	55 N. C.
William Seaver Woods,	*Corning, N. Y.*	31 N. C.
§ Lula Giralda Adams,	*Biddeford, Me.*	*66 Wyllys Ave.*
§ Caroline Chalker Clark,	*Wethersfield.*	*274 High St.*
§ May Blanche Lord,	*West Hartford.*	*274 High St.*
§ Abby May Thompson,	*Rumford, Me.*	*198 College St.*
§ Sarah Bertha Tucker,	*Durham.*	*14 Pleasant St.*
† Frances Louise Weeks,	*Middletown.*	*297 College St.*
† Maud Eloise Wells,	*Hartford.*	*274 High St.*

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Harry Lincoln Borland,	*Rockland, Pa.*	11 O. H.
Alfred Brittain,	*Colchester.*	39 N. C.
Randolph Campbell Hurd,	*Newburyport, Mass.*	*22 Wyllys Ave.*
Frederick Kniffin,	*Catskill, N. Y.*	32 N. C.
George Floyd Ludlow,	*Bridgehampton, N. Y.*	10 N. C
George Rowland Munroe,	*Paterson, N. J.*	*25 College Place.*
Jessie Worthen Hall Ames,	*Cromwell.*	*274 High St.*
Sarah Lavina Bennett,	*Mendon, Mass.*	*274 High St.*
Lily Clark Brown,	*New Britain.*	*274 High St.*
Christine Kellogg Glover,	*Middletown.*	*306 William St.*
Caroline Tracy Robbins,	*Wethersfield.*	*274 High St.*
Lizzie Cocks Stocking,	*Weatogue.*	*274 High St.*

SUMMARY.

GRADUATE STUDENTS,	10
SENIORS,	63
JUNIORS,	49
SOPHOMORES,	62
FRESHMEN,	70
SPECIAL STUDENTS,	12
TOTAL,	266

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first two years. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above Courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses, may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the conditions for the degrees of Master of Arts and Master of Science.

TERMS OF ADMISSION.

CLASSICAL COURSE.

Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN.—1. Latin Grammar, including Prosody.

2. Cæsar,—Gallic War, books I.–IV.

3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.

4. Vergil,—Eclogues; Æneid, books I.–VI.

5. Ovid,—translation into English of passages of average difficulty from the Metamorphoses.

6. Translation at sight into English of passages of prose Latin of average difficulty.

7. Translation into Latin of simple English sentences and easy narrative passages based on the prose authors read.

With the passages set under headings 5, 6, and 7, a vocabulary of the less common words is supplied. Candidates are also allowed, at the option of the examiners, to substitute translation at sight for some of the passages set from the required authors.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph* and *th* as *c*, *p*, and *t* with the aspiration following, as in *hack-hire*, *haphazard*, *boathook*; other consonants as in English.

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

GREEK.—1. Greek Grammar,—Hadley-Allen's, or Goodwin's.

2. Xenophon,—four books of the Anabasis.

3. Homer,—three books of the Iliad.

4. Translation at sight of one or more passages from Xenophon.

5. Translation of simple English sentences into Greek.

HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth.

3. Ancient Geography.

The amount of historical knowledge required for this examination may be obtained from the following books:—Allen's Short History of the Roman People, pp. 1–275; Myers' Ancient History, Part I., beginning with Section II. Tozer's Primer of Ancient Geography is recommended as the basis for instruction in Ancient Geography. Familiarity with map-drawing is also especially desirable.

MATHEMATICS.—1. Arithmetic, including the Metric System of Weights and Measures.

2. Algebra, through Progressions, including the use of the Binomial Formula for positive integral exponents,—so much, for example, as is contained in Wentworth's Elements of Algebra, or in the first seven books of Newcomb's Algebra for Colleges.

3. Plane Geometry,—the first five books of Chauvenet's Geometry, or their equivalent.

ENGLISH.—1. Each candidate will be required to write a short English essay upon a subject announced at the time of the examination. This essay will be expected to show a general familiarity with the works mentioned below, and will be examined with especial attention to accuracy of grammar, spelling, and punctuation. In 1892, the subject of this essay will be taken from one or more of the following works, candidates being required, however, to be prepared on all of them:—Shakspere's Julius Cæsar and As You Like It, Scott's Marmion, Longfellow's Courtship of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Webster's first Bunker Hill Oration, Irving's Alhambra, Scott's Talisman, George Eliot's Scenes from Clerical Life, Hawthorne's House of the Seven Gables.

In 1893, it will be taken from the following:—Shakspere's Julius Cæsar and Twelfth Night, Scott's Marmion, Longfellow's Courtship of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's Ameri-

can Scholar, Irving's Sketch Book, Scott's Ivanhoe, Dickens' David Copperfield.

In 1894, it will be taken from the following:—Shakspere's Julius Cæsar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens' David Copperfield.

In 1895, it will be taken from the following:—Shakspere's Merchant of Venice and Twelfth Night, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, the Sir Roger de Coverley Papers in the Spectator, Macaulay's Essay on Milton and Essay on Addison, Webster's first Bunker Hill Oration, Irving's Sketch Book, Scott's Abbot.

2. Each candidate will be required to criticise specimens of English given him at the time of the examination.

Two hours will be allowed for the entire examination in English.

It is recommended that teachers of Greek and Latin in preparatory schools insist upon the use of simple and idiomatic English in translation.

LATIN-SCIENTIFIC COURSE.

Candidates for the Latin-Scientific Course will be examined in the following books and subjects:—

LATIN.—Same requirements as for the Classical Course.

HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek History and Geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH OR GERMAN.—Candidates will be examined in French or German, as they may elect. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions.

SCIENTIFIC COURSE.

Candidates for the Scientific Course will be examined in the following books and subjects:—

MATHEMATICS.—Same requirements as for the Classical Course, with the addition of the following subjects:—

1. Algebra,—Permutations and Combinations, the Binomial Theorem for negative and fractional exponents, Continued Fractions, the

Doctrine of Limits, the nature of Series, Indeterminate Coefficients, fundamental properties of Logarithms, fundamental properties of Equations.

2. Solid and Spherical Geometry.

3. Plane and Spherical Trigonometry, with the use of Logarithmic and Trigonometric Tables.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH OR GERMAN. —Same requirements as for the Latin-Scientific Course.

[After 1893, candidates for admission to the Scientific Course must, in addition to the preceding requirements, be prepared on one of the following three courses:—

I. BOTANY AND PHYSICAL GEOGRAPHY.—1. In Botany the candidate must pass an examination in Gray's Lessons in Botany, and must show ability to dissect any flowers of no extraordinary difficulty, and write descriptions of them. He must also present an herbarium of not less than fifty species, collected and classified by himself.

2. In Physical Geography, such a knowledge of the subject will be required as can be gained from the study of Geikie's Elementary Lessons.

II. CHEMISTRY.—1. Such a knowledge of the subject will be required as can be gained from Eliot and Storer's Manual of Chemistry, pp. 1–143.

2. The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

III. PHYSICS.—1. Such a knowledge of the subject will be required as can be gained from Gage's Introduction to Physical Science, or Avery's First Principles of Natural Philosophy.

2. The candidate must also have performed a series of at least thirty experiments involving careful measurements, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. The experiments may be selected from Worthington's Physical Laboratory Practice, or from any other elementary laboratory manual.]

SPECIAL COURSES.

Special Students, not candidates for a degree, may be admitted, upon passing such examination as the Faculty shall in each case prescribe.

No one can be admitted to the Freshman Class under the age of fifteen years, or to an advanced standing without a corresponding increase of age.

All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

A student who has accomplished half or more of the preparatory course, may be examined on that part, and receive credit therefor. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

The regular examination for admission is held on the Thursday and Friday of Commencement Week. All candidates must be present at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term.

Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1st. The time of these examinations will be Thursday and Friday of Commencement Week. But, if no applications are received before June 1st, these examinations will not be held.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

LATIN.

PROFESSOR MERRILL; MR. NICOLSON.

I. LIVY,—Books 21 and 22, with parallel readings from Polybius in translation. *Four times a week during the first half-year.* MR. NICOLSON.

HORACE,—Selections from Epodes, Satires, Odes, and Epistles. *Four times a week during the second half-year.* MR. NICOLSON.

Exercises in sight translation and prose composition throughout the year.

Course I. is required of Classical and Latin-Scientific Freshmen.

II. PLAUTUS AND TERENCE,—Trinummus; Andria. *Twice a week during the first half-year.* MR. NICOLSON.

CICERO,—Selected Letters. *Twice a week during the second half-year.* PROFESSOR MERRILL.

III. CICERO,—Ausgewählte Briefe, Hofmann-Andresen. *Three times a week during the first half-year.* PROFESSOR MERRILL.

PLAUTUS AND TERENCE,—Captivi and Menæchmi, Brix; Phormio, Spengel. *Three times a week during the second half-year.* MR. NICOLSON.

Courses II. and III. are elective for those who have taken Course I., and one of them is required of all Classical Sophomores.

Prospective candidates for special honors in Latin at graduation should elect Course III. in the Sophomore year, and all others who intend to pursue any of the higher elective courses in Latin will gain a year by doing the same.

IV. LATIN PROSE COMPOSITION. A course in advanced work, with practical exercises and demonstrations, designed to illustrate the theory of Latin rhetoric. *Once a week.* PROFESSOR MERRILL and MR. NICOLSON.

Course IV. is elective for those who take, or have taken, Course III.

V. LATIN PROSE COMPOSITION. A course in continuation of Course IV., involving original composition in Latin on historical, descriptive, and argumentative themes. *Once a week.*

Course V. is elective for those who have taken Course IV.

Courses IV. and V. are given in alternate years, the latter being omitted this year.

VI. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Once a week.*

VII. ROMAN PRIVATE AND SOCIAL INSTITUTIONS. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Once a week.* PROFESSOR MERRILL.

Courses VI. and VII. are elective for those who take, or have taken, Course III. They are given in alternate years, the former being omitted this year.

VIII. PLINY THE YOUNGER,—Selected Letters. *Twice a week during the first half-year.* PROFESSOR MERRILL.

TIBULLUS AND PROPERTIUS,—Selected Elegies. *Twice a week during the second half-year.*

IX. TACITUS,—Agricola, Germania, Annals,—selections. *Twice a week during the first half-year.* PROFESSOR MERRILL.

CATULLUS. *Twice a week during the second half-year.* PROFESSOR MERRILL.

X. LUCRETIUS,—Books 1, and 3, and selections from Books 2 and 5. *Twice a week during the first half-year.* MR. NICOLSON.

OVID,—Selections. *Twice a week during the second half-year.* MR. NICOLSON.

Course VIII. alternates in successive years with Courses IX. and X., being omitted this year.

Courses VIII., IX., and X. are elective for those who have taken Course III.

XI. LATIN SEMINARY. This course of instruction and practice in methods of advanced work is intended primarily for graduate students, but Seniors who are candidates for special honors in Latin at graduation may also be admitted to it. Semi-weekly meetings of two hours each are held in a room set apart, as a study and library, for students pursuing this course. The subject for last year was a critical study of certain of the poems of Catullus, with the presentation of papers embodying individual investigation of assigned topics. For

the present year, it is the general principles of Latin Epigraphy, with the individual interpretations of selected inscriptions of various classes. PROFESSOR MERRILL.

XII. During the second half of alternate years Professor Merrill conducts a series of ten conferences of an hour each on the History and Methods of Classical Study and Teaching. These conferences are open, on application to the leader, to all persons interested, but are designed especially for those students in the advanced courses who are intending to teach Latin.

Course XII. is omitted the present year.

For the successful prosecution of Courses III. and VIII.–X., a reading knowledge of easy German prose on philological subjects is especially desirable, and for Course XI. it is necessary. Students, therefore, who look forward to the study of Latin beyond the required courses, and have on admission to college no acquaintance with German, should elect German in the Freshman year.

GREEK.

PROFESSOR VAN BENSCHOTEN; MR. GOODRICH.

I. HERODOTUS,—special attention given to Morphology and the derivation and composition of words. Greek History. *Four times a week during the first term.* MR. GOODRICH.

THUCYDIDES; Syntax, with Composition. *Four times a week during the second term.* MR. GOODRICH.

HOMER; Prosody; Studies in Greek language and life in Homeric literature. *Four times a week during the third term.* MR. GOODRICH.

Throughout the year considerable time is given to sight-reading. Emphasis is placed upon accuracy of translation and the use of idiomatic English.

Course I. is required of Classical Freshmen.

II. AESCHINES AND DEMOSTHENES,—Orations on the Crown. Lectures on the Public Life of the Greeks. A course of collateral reading is required, covering Butcher's Demosthenes, Jebb's Primer of Greek Literature, and portions of Jebb's Greek Orators. *Twice a week during the first term.* PROFESSOR VAN BENSCHOTEN.

AESCHYLUS AND SOPHOCLES,—Prometheus Bound; Antigone. Lectures on Greek Drama, with illustrations. The collateral reading includes Jebb's Primer of Greek Literature, portions of Jevons' History

of Greek Literature and Mahaffy's History of Greek Literature, and Haigh's Attic Theater. *Twice a week during the second term.* PROFESSOR VAN BENSCHOTEN.

PLATO,—Euthyphro, Apologia, Crito, Phædo. Lectures on Greek Philosophy. Rapid translation, with attention to the style and thought of the author. The collateral reading includes introductory chapters of Grote's Plato, and Zeller's Outline of Greek Philosophy. *Twice a week during the third term.* PROFESSOR VAN BENSCHOTEN.

Course II. is required of Classical Sophomores.

III. LECTURES ON GREEK LIFE, with illustrations. *Once a week.* PROFESSOR VAN BENSCHOTEN.

Course III. is elective for those who have taken Course I.

IV. GREEK COMEDY,—The Frogs and the Acharnians of Aristophanes.

GREEK TRAGEDY,—Aeschylus, Sophocles, Euripides. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

V. GREEK PHILOSOPHY,—Plato, Aristotle, and Xenophon; The Clouds of Aristophanes. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

In connection with IV. and V., fortnightly meetings are held for special studies in the Greek language and literature.

These courses are intended for those who desire a wider acquaintance with Greek literature and a more technical knowledge of grammar and the details of interpretation. They are given in alternate years, Course IV. being omitted this year.

Courses IV. and V. are elective for those who have taken Courses I., II., and III.

VI. BIBLICAL GREEK,—The Gospels and the Acts; The Shepherd of Hermas. *Twice a week.* PROFESSOR VAN BENSCHOTEN.

VII. BIBLICAL GREEK,—The Epistles of the New Testament; The Διδαχή or the Teaching of the Apostles. *Twice a week.* PROFESSOR VAN BENSCHOTEN.

In connection with VI. and VII., fortnightly meetings are held for special studies in methods of interpretation and in the history of the text. They are alternate courses, Course VII. being omitted this year.

Courses VI. and VII. are elective for those who have taken Courses I., II., and III.

VIII. LYRIC POETRY,—Buchholz's Anthologie aus den Lyrikern der Griechen. *Three times a week during the first term.*

LUCIAN. *Three times a week during the second term.*

NEO-HELLENIC,—with collateral work on the geography and topography of Greece, on epigraphy, and on Greek art and life. *Three times a week during the third term.* PROFESSOR VAN BENSCHOTEN.

Course VIII. is elective for those who have taken either Course IV. or Course V.

GRADUATE INSTRUCTION. The Politeia of both Plato and Aristotle, and Aristotle's Athenian Constitution, with extended reading in the constitutional history of Greece, including Grote's History of Greece entire.

HEBREW.

PROFESSOR PRENTICE.

The class begins with Davidson's Introductory Hebrew Grammar. Special attention is devoted to the acquisition of the habit of prompt and accurate translation of English into Hebrew. Some ten or twelve chapters of easy Hebrew are read first, such as the story of Rebecca, the finding of Joseph, the life of Samson, David and Goliah, or Elijah the Tishbite. Constant effort is made to secure an easy and accurate pronunciation.

The class next reads several chapters in Genesis. Mitchell's Gesenius' Hebrew Grammar is studied with especial reference to the syntax. From a dozen to twenty psalms are then read. Special topics are assigned to different members of the class to examine, and their reports are read before the class. The reference books required are the Hebrew Bible of Hahn, or Stier and Theile, and the lexicon of Gesenius or Fuerst. *Five times a week.*

This course is elective for Juniors.

GERMAN.

PROFESSOR PRENTICE.

I. GERMAN. Whitney's German Grammar, taking the first series of lessons outlined by the author. Whitney's German Reader. After the first examination, special attention is given to gaining a mastery of the irregular verbs, the rules for the gender of the nouns, and the order of the German sentence. *Three times a week.*

II. GERMAN. Schiller's Wilhelm Tell, Heine's Harzreise, Lessing's Minna von Barnhelm. Systematic sight-reading is practiced, Stern's Select Comedies or other books of like difficulty being used. *Three times a week.*

III. GERMAN. Schiller's Wallenstein Trilogy, and Nathan der Weise. A large selection from Schiller's lyrics is assigned the class for collateral reading. *Twice a week.*

Course III. is omitted this year.

IV. GERMAN. This course is mainly given to the study of Goethe. Faust and Hermann and Dorothea are read. A large selection of Goethe's lyrics is assigned the class for collateral reading. *Twice a week.*

In connection with the plays read in Courses III. and IV., special efforts are made to render the class familiar with the most important criticism the dramas have encountered. In addition to this, two lectures are given on Klopstock, five on Lessing, two on Wieland, four on Herder, six on Schiller, and eight on Goethe.

Course IV. is omitted this year.

Rules concerning the election of courses in German are given below, at the end of the report of the Department of Romance Languages.

Students in the Classical and Latin-Scientific Courses, who look forward to the study of Latin or Greek beyond the required courses, and have no previous acquaintance with German, should elect German in the Freshman year.

ROMANCE LANGUAGES.

ASSOCIATE PROFESSOR KUHNS.

I. FRENCH. Whitney's Practical French Grammar, Part I. De Maistre,—La Jeune Sibérienne, Le Lépreux de la Cité d' Aoste; Erckmann-Chatrian,—Madame Thérèse; About,—Le Roi des Montagnes; Peyrebrune,—Les Frères Colombe; Énault,—Le Chien du Capitaine. Part of the above books are read at sight. *Three times a week.*

In addition to the above work, the instructor meets the class once a week for personal drill in pronunciation.

II. FRENCH. Roulier's Second Book of French Composition. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year, however, more attention is paid to the literature, and one play each of Corneille, Racine, and Molière is read. The following books are read:—

Mérimée,—Colomba; Sandeau,—Mademoiselle de la Seiglière; Labiche et Delacour,—Les Petits Oiseaux; Corneille,—Cinna; Racine,—Andromaque; Molière,—Le Bourgeois Gentilhomme; Rougemont,—La France; Halèvy,—L'Abbè Constantin; Daudet,—Tartarin de Tarascon.

Part of the above books are prepared for the class, part read at sight, and part assigned as collateral readings. *Twice a week.*

III. FRENCH. A course in French conversation. Chardenal's Practical Exercises in French Conversation, Anecdotes Nouvelles, Les Fables de la Fontaine, Historiettes Modernes. During the last half-year informal lectures are given in French. *Once a week.*

Course III. is elective for those who have taken Course I.

IV. FRENCH. The object of this course is the study of French literature in the seventeenth and nineteenth centuries. During the first half-year the following books are read—but not translated,—questions on the subject matter being put and answered in French:—Corneille,—Le Cid; Racine,—Athalie; Molière,—Le Misanthrope; La Fontaine,—first four books of Fables; Boileau,—L'Art Poétique; Bossuet,—Oraisons Funèbres.

At each recitation selections from English authors are translated into French. Further, lectures on the general state of literature in France in the seventeenth century occupy the last twenty or thirty minutes of each recitation.

In addition, each member of the class must select one of the following courses, and prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of the author selected.

1. Corneille,—Cinna, Polyeucte, Le Menteur, Rodogune, with life of Corneille.

2. Racine,—Andromaque, Les Plaideurs, Bérénice, Mithridate, with life of Racine.

3. Racine,—Bajazet, Iphigénie, Phèdre, Esther, with comparison between French and classic drama.

4. Molière,—Les Précieuses Ridicules, L'École des Femmes, Le Médecin malgré lui, L'Avare, with life of Molière.

5. Molière,—Le Bourgeois Gentilhomme, George Dandin, Tartuffe, Le Malade Imaginaire, with comparison between Molière and Shakspere.

6. La Fontaine,—first eight books of his Fables, and sources of his Fables.

7. Boileau,—first three satires, Le Lutrin, Pope's Rape of the Lock, and comparison between Boileau and Pope.

Similar work is done during the second half-year in the literature of the nineteenth century. Works prepared for discussion in class are:—Chateaubriand,—Atala; Lamartine,—selections; Victor Hugo,—Hernani, and lyrical poetry; de Musset,—comedies, stories, and poetry; Béranger,—Chansons; and Balzac,—Eugénie Grandet. The work in composition is continued, and the lectures briefly touch on the eighteenth century and then go on to discuss the literary phases of the nineteenth century. Special courses are as follows:—

1. Chateaubriand,—René, Le dernier Abencérage, extracts from the Génie du Christianisme, with life of Chateaubriand.

2. Lamartine,—Jocelyn, with life of Lamartine.

3. Victor Hugo,—Ruy Blas, Le Roi s'amuse, les Burgraves, and comparison with Racine and Corneille.

4. Victor Hugo,—Quatre-vingt-treize, with life of Hugo.

5. De Musset,—selections, with life of de Musset.

6. Balzac,—Père Goriot, César Birotteau, with life of Balzac.

7. George Sand,—Indiana, La Mare au Diable, with life of George Sand. *Twice (counting as three times) a week.*

Course IV. is elective for those who have taken Courses I., II., and III.

The following course will be offered next year:—

OLD FRENCH. 1. Clédat's Morceaux Choisis des Auteurs Français du Moyen Age; Clédat's Grammaire élémentaire de la vieille langue française.

2. Lectures and collateral reading on Old French Literature.

3. Exercises in Old French etymology, based on La Vie de Saint Alexis.

4. Private reading in La Chanson de Roland, Aucassin et Nicolète, and Les Anciens Textes Français. *Once (counting as twice) a week.*

Course V. is meant primarily for graduates, but may be elected by those who have taken I., II., III., and IV. French.

ITALIAN.—Grandgent's Grammar. De Amicis,—Alberto; Barrili,—Una Notte Bizzarra; Colombi,—Dopo il Café; Pellico,—Le Mie Prigioni.

During the last half-year, in addition to the regular work in translating modern prose, the instructor will translate and interpret to the class the whole of Dante's Inferno, and part of the Purgatorio, the last half hour of each recitation being devoted to this exercise. As a

preparation for this part of the work, the class is required to read Bayne's Dante and his Ideal. *Twice a week.*

The course in Italian is elective for Juniors.

GRADUATE INSTRUCTION.—Graduate work is being done in this department this year in Dante's Divina Commedia and in the comparative study of the seventeenth century and nineteenth century literature in France.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Candidates for the Latin-Scientific and Scientific Courses are examined at entrance to test their ability to read at sight easy passages in French or German as they may elect. Students in the Latin-Scientific Course are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course must, during the first two years, take either I. French, II. French, and II. German, or I. German, II. German, and II. French, according as they were examined at entrance in German or French. Aside from these restrictions, each course in either language is elective for those who have previously taken the preceding course or courses in the same language, except that III. French may be elected in the same year with II. French.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's Primer of English Literature, with lectures. *Twice a week.*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspere's Hamlet; selections from Pope's Satires. *Once a week.*

3. A brief course of collateral reading, with examinations at the close of each term. Members of the class may choose either one of the courses in Winchester's "Five Short Courses of Reading in English Literature." These courses may be briefly outlined as follows:—

(1.) 1559–1674. Marlowe's Faustus and Greene's Friar Bacon; Shakspere's Henry IV., As You Like It, Antony and Cleopatra, Winter's Tale, and ten sonnets; Bacon's Essays—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost, Book I., Samson Agonistes.

(2.) 1660–1745. Dryden's Absalom and Achitophel; Addison's Essays—selections; Steele's Essays—selections; Swift's Tale of a Tub, Argument against Abolishing Christianity, Journal to Stella, I.–VII.

Johnson's Lives of Dryden, Swift, Pope; Thackeray's Lectures on the English Humourists.

(3.) 1745–1789. Gray's Elegy in a Country Churchyard, Ode on a Distant Prospect of Eton College; Goldsmith's Deserted Village, Retaliation, and Vicar of Wakefield; Johnson's Vanity of Human Wishes, Rasselas; Burke's two American Speeches, Reflections on the Revolution in France—the first half, Letter to a Noble Lord; Cowper's Task—Book I.; Burns—selected poems.

Leslie Stephen's Life of Johnson, Dobson's Life of Goldsmith, Morley's Life of Burke.

(4.) 1789–1832. Wordsworth—selected poems; Coleridge's Ancient Mariner, Love, Biographia Literaria—selected chapters; De Quincey's Recollections of Coleridge and Wordsworth, The Affliction of Childhood, The English Mail Coach; Lamb's Essays of Elia—selections; Byron's Childe Harold, Canto IV.; Shelley—selected poems; Keats—selected poems.

(5.) 1832–1880. Carlyle's Sartor Resartus, Book II. and Book III., chapter 8, Essay on Burns; Ruskin's Sesame and Lilies, Fors Clavigera, Letter V.; Matthew Arnold's Culture and Anarchy, chapter I., selected poems; Browning—selected poems; Tennyson—selected poems.

Course I. is elective for Juniors.

II. ENGLISH LITERATURE from 1789 to 1832, especially as represented in the works of Burns, Wordsworth, Coleridge, Lamb, Scott, Byron, Shelley, Keats. Members of the class read carefully the principal writings of these authors; consider their attitude toward the leading movements in thought and in society during a half century; and prepare abstracts and critical studies of what they read, for discussion before the class. *Twice (counting as three times) a week.*

Course II. is elective for those who have taken Course I.

III. THE ELEMENTS OF LITERARY CRITICISM. A course of lectures upon the essential elements and the various forms of literature. *Once a week.*

Course III. is elective for those who have taken Course I.

IV. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior must write an argument for debate before his class, and either four essays or two public orations. All written work receives the personal criticism of the Professor, and the orations are also rehearsed before the Professor of Elocution.

V. GRADUATE INSTRUCTION. Graduate students in this department, for the present year, take Courses II. and III.; and, in addition, are assigned special and more extended courses of reading and investigation in the field covered by Course II., under the personal direction of the Professor. The principal topics assigned for such study, this year, are:—The Causes and Significance of the Romantic Movement, 1789–1832; The Ethics of the Period as reflected in its Poetry; and The Later Revolutionary Sentiment, especially as illustrated in the Life and Work of Shelley.

ENGLISH LANGUAGE.

ASSOCIATE PROFESSOR MEAD.

I. ENGLISH LANGUAGE. Trench's English Past and Present, with a short course of lectures upon the rise and early history of the language. *Once a week.*

ENGLISH COMPOSITION. Nichol's English Composition, with frequent practical exercises. *Once a fortnight.*

Course I. is required of Freshmen.

II. RHETORIC. Hill's Principles of Rhetoric. The members of the class are required to write—in addition to their regular essays—weekly exercises illustrating and applying the principles laid down in the text-book. These exercises are discussed and criticised by the class. As a study in modern prose style, the class read and discuss in the class-room Macaulay's Essays on Samuel Johnson, and Thackeray's Lectures on the English Humourists of the Eighteenth Century. *Three times a week during the first half-year.*

Course II. is required of Sophomores.

III. ENGLISH COMPOSITION. 1. Sophomores are required to write six essays during the year on subjects assigned by the Professor, and to meet six times for general class discussion and criticism of their themes.

2. Juniors write on subjects of their own selection, and choose one of the two following courses:—Course I., consisting of five general, and two special essays; Course II., consisting of two general, and four special essays. The special essays must be written on subjects related to some department of college work, and the topics submitted in writing to the Professor for approval. Every member of the Junior class meets the Professor privately, once a term, for individual criticism.

IV. ANGLO-SAXON. 1. Sweet's Anglo-Saxon Primer and Anglo-Saxon Reader; Cynewulf's (?) Andreas or Cynewulf's Elene. Drill in etymology and historical grammar is a frequent class exercise. The class work is supplemented by collateral reading in Lounsbury's History of the English Language. As further collateral reading, Freeman's Old English History and Gardiner's Student's History of England are recommended. Literary history is treated chiefly in lectures. *Twice (counting as three times) a week.*

2. Each member of the class is required, in addition to the above, to select one of the following courses for private reading:—

(1.) Judith; King Alfred's West Saxon version of Gregory's Pastoral Care.

(2.) King Alfred's Orosius; selections from the Blickling Homilies.

(3.) Wulfstan's Homilies; selections from Beówulf.

(4.) Ælfric's Metrical Homilies; Cædmon's (?) Genesis or Exodus.

(5.) Selections from the Anglo-Saxon Chronicle, with the minor poems of the Chronicle.

Course IV. is elective for Juniors. It is omitted this year.

V. BEÓWULF. The poem is read as a piece of literature, rather than as a text for the study of grammar and etymology. Each member of the class presents at the end of the year a thesis on a topic assigned by the Professor. *Once a week.*

Course V. is elective for those who have taken Course IV. It will be omitted next year.

VI. OLD ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's Specimens of Early English. The work in etymology and historical grammar is a continuation of that of Course IV.

The historical development of the literature receives more attention than in Course IV. For collateral reading, ten Brink's History of English Literature is recommended. *Twice (counting as three times) a week.*

2. Of the following courses each member of the class selects one for collateral reading:—

(1.) Selections from the Arthurian Romances, with a study of some of their sources:—Nennius, Historia Britonum; Geoffrey of Monmouth, Historia Regum Britanniæ; the Romance of Merlin; Malory's Morte Darthur (ed. Sommer); Sir Gawayne and the Green Knight.

(2.) Selections from the Charlemagne Romances:—G. Paris, Histoire poétique de Charlemagne; La Chanson de Roland (ed. L. Gautier); the English Charlemagne Romances.

(3.) Selections from Chaucer's Canterbury Tales and minor poems.

(4.) Selections from the metrical chroniclers.

(5.) Selections from religious prose literature, the Ancren Riwle, Dan Michel's Ayenbite of Inwyt, etc.

Course VI. is elective for Juniors.

Courses IV. and VI. alternate with each other in successive years, Course VI. being given this year.

GRADUATE INSTRUCTION. Course V. is intended primarily for graduate students, but is this year also elective for Seniors.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Members of the Freshman class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six, declamations in the year.

The exercises in the Sophomore and Junior years are specially assigned, and are intended to develop a good variety of style.

Considerable time, in rehearsal and criticism, is also given to those Seniors who elect Orations.

II. THEORY OF ELOCUTION. The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given. The text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation, to be delivered before the class for criticism. The purpose of the work this term is to render each student competent to judge correctly of his own expression of thought and feeling, and to intelligently criticise others. *Twice a week.*

Course II. is elective for Juniors.

HISTORY AND JURISPRUDENCE.

ASSOCIATE PROFESSOR STEPHENSON.

I. ENGLISH CONSTITUTIONAL HISTORY. This course has as its basis Taswell-Langmead's English Constitutional History. It is supplemented, for the purpose of illustration and comparison, by topical lectures and parallel readings in the general histories of England, France, and other European countries. *Twice (counting as three times) a week.*

II. HISTORY OF THE UNITED STATES. This course consists, in the first half year, of class drill in the colonial portion of Doyle's History of the United States, in Thwaite's Colonies, in Fiske's Critical Period of American History, in Johnston's History of American Politics, and in collateral authorities; in the second half year, of lectures on the history of the sixty years beginning with the administration of Andrew Jackson and closing with the administration of Cleveland and the end of the first century of the constitution. *Three times a week.*

Courses I. and II. are elective for Juniors, in alternate years, Course II. being given this year.

III. EUROPEAN HISTORY. In this course are considered the leading facts of European history, from the fall of the Western Roman Empire to the death of Napoleon. Emerton's Introduction to the Middle Ages, Duruy's History of the Middle Ages, and Stillé's Studies in Mediæval History are used for class drill in the first half-year. The latter half of the year is devoted to the history of the 15th, 16th, 17th, and 18th centuries. *Twice a week.*

Course III. is elective for Juniors.

IV. CONSTITUTION OF THE UNITED STATES. Fiske's Civil Government in the United States and Cooley's Principles of Constitutional Law are used as text-books. The former is passed rapidly through as an introduction to the more extended and careful study of the fundamental law of the Union as set forth in Cooley. The object of the instruction is to familiarize the class with all the main aspects of our constitution, both state and federal, unwritten developments, practical questions, legislative machinery, etc. For this purpose various commentaries of different grades are more or less used, and supplementary lectures are given. *Twice a week during the second half-year.*

Course IV. is required of Juniors.

V. ROMAN JURISPRUDENCE. The general history of Roman law is studied during the first half of the year. Muirhead's Roman Law is used as a text-book. The latter half of the year is given to a somewhat careful study and comparison of the Code of Gaius and the Institutes of Justinian, with lectures upon the influence of Roman law on the various European codes. *Twice a week.*

Course V. is elective for Juniors.

VI. HISTORY OF INSTITUTIONS. The central aim of this course is to put the development of the political institutions and of the politics of the United States in its true historical setting. It covers such topics as the following:—The origin and development of government; ancient political systems; mediæval political organization; the constitutional growth of the leading European states, and the chief features of their constitutions; the governments of England and the United States; the functions and aims of government; the nature and development of law, etc. Wilson's The State is used as a text-book. Parallel readings are assigned, and frequent oral and written examinations are held. *Twice a week.*

Course VI. is elective for Seniors who take or have taken Course III.

GRADUATE INSTRUCTION. Graduate instruction in this department is given this year in Roman Institutions and Mediæval History.

ECONOMICS AND SOCIAL SCIENCE.

MR. DANIELS.

I. POLITICAL ECONOMY. Walker's Political Economy is used as the basis of the work, and is supplemented by lectures. *Twice a week.*

Course I. is required of Seniors.

II. HISTORY OF POLITICAL ECONOMY. The course is based upon Ingram's sketch of Political Economy, and traces the development of the science. *Once a week during the first term.*

SOCIAL SCIENCE. The rise and development of institutions considered in their sociological aspect constitute the substance of the course. *Once a week during the second and third terms.*

Course II. is elective for Seniors.

III. FINANCE. Adams's Public Debts is used as an introductory text-book. Special attention is given to the financial history of England and the United States. Present problems are carefully considered. *Twice a week.*

Course III. is elective for Seniors.

PHILOSOPHY.

PROFESSOR ARMSTRONG.

I. LOGIC. Jevons-Hill's Elements of Logic. The aim of this course is to ground the student in the fundamental forms of reasoned thinking, deductive and inductive alike. Logic is viewed not merely as a preliminary philosophical discipline, but as preparatory to all later and more advanced work. The study of the text-book is emphasized by numerous examples in logical praxis. *Twice a week during the second half-year.*

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities, as Ladd's Outlines of Physiological Psychology, McCosh's Psychology, James's Principles of Psychology, and Baldwin's Handbook of Psychology. Instruction is not confined to the text-book, but lectures and discussions are used to explain and supplement it. These are introduced especially in illustration of the more recent psychological investigations and of positions still under debate. *Three times a week during the first half-year.*

Course II. is required of Juniors.

III. PHILOSOPHY. Stuckenberg's Introduction to the Study of Philosophy, Schwegler's History of Philosophy, with lectures and discussions. About one-half of the year is devoted to philosophical introduction, with collateral readings in Ladd's Introduction to Philosophy. In the latter part of the year the history of philosophy is commenced, with special reference to the ancient and mediæval systems. *Twice a week.*

Course III. is elective for Juniors.

IV. HISTORY OF MODERN PHILOSOPHY. This is an outline course on the development of philosophic thought in the modern era. Attention is chiefly devoted to the leading systems from Descartes to Kant. Schwegler's History of Philosophy is used as a basis for the course, but instruction is given mainly by lectures, with references to the standard histories, as Ueberweg's History of Philosophy, Erdmann's History of Philosophy, etc., and recitations and discussions on the systems considered. *Twice a week.*

Course IV. is elective for Seniors.

V. SELECTIONS FROM LEADING MODERN PHILOSOPHERS. This course consists of direct study of selections from the classical works of the modern period, either in the original text or in translation. The plan of the course also includes collateral readings, discussions and essays on the systems considered. It is based this year on such works as Veitch's Method, Meditations and Selections from the Principles of Descartes, Locke's Essay on Human Understanding, Fraser's Selections from Berkeley, Hume's Inquiry concerning Human Understanding, Kant's Prolegomena, etc. *Once a week.*

Course V. is elective for Seniors who take Course IV.

GRADUATE INSTRUCTION. Advanced psychology, with special reference to the several positions of the leading schools of psychology:—Wundt's Grundzüge der Physiologischen Psychologie, Ladd's Elements of Physiological Psychology, Höffding's Outlines of Psychology, Volkmann's Lehrbuch der Psychologie, James's Principles of Psychology.

ETHICS AND EVIDENCES OF CHRISTIANITY.

PRESIDENT RAYMOND.

I. EVIDENCES OF CHRISTIANITY. The aim of the course is to study the topics most vitally related to the subject of Christian Evidences from several points of view. Row's Manual of Christian Evidences, in which the whole argument revolves around the personality of Christ, is used as an outline for the course of work. This is supplemented by Fisher's Grounds of Theistic and Christian Belief. To this is added a course of lectures designed to treat the same subject from the Biblical point of view. *Twice a week during the first term.*

Course I. is required of Seniors.

II. ETHICS. Robinson's Principles and Practice of Morality. The instruction in this subject is conducted by recitations and class-room discussions. The former part of the course is given to theoretical ethics, with a somewhat extended treatment of the psychology of conscience and of the several theories of moral obligation. The remainder of the course is devoted to practical ethics. *Twice a week during the second term.*

Course II. is required of Seniors.

III. THEISM. The course is conducted by lectures, supplemented by collateral readings and class discussions. Its purpose is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Once (counting as twice) a week.*

Course III. is elective for those who have taken Courses I., II., and III. in Philosophy.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. JAMES; DR. EICHELBERGER; ASSOCIATE PROFESSOR ROSA.

I. SOLID GEOMETRY. Chauvenet's Elementary Geometry. *Four times a week during the first third of the year.* DR. EICHELBERGER.

TRIGONOMETRY. Wells' Plane and Spherical Trigonometry; Newcomb's Logarithmic Tables. *Four times a week during the second third of the year.* DR. EICHELBERGER.

ALGEBRA. Hall and Knight's Higher Algebra. *Four times a week during the last third of the year.* DR. EICHELBERGER.

Course I. is required of Classical and Latin-Scientific Freshmen.

II. ANALYTICAL GEOMETRY,—elementary course. Wentworth's Analytical Geometry. *Three times a week during the first term.* PROFESSOR ROSA.

Course II. is required of all Classical and Latin-Scientific Sophomores and Scientific Freshmen, except those who elect Course IV.

III. APPLICATIONS OF TRIGONOMETRY to Surveying, Navigation, and elementary problems in Astronomy. Wentworth's Navigation and Surveying. *Twice a week, with instrumental practice.* DR. EICHELBERGER.

Course III. is elective for Classical and Latin-Scientific Sophomores, and for Scientific Freshmen.

IV. ANALYTICAL GEOMETRY. Salmon's Conic Sections; Aldis' Solid Geometry. *Twice a week.* MR. JAMES.

Course IV. is elective for Classical and Latin-Scientific Sophomores, and Scientific Freshmen.

V. DIFFERENTIAL AND INTEGRAL CALCULUS,—elementary course. Osborne's Treatise on Differential and Integral Calculus. *Twice a week.* PROFESSOR VAN VLECK.

Course V. is elective for those who have taken Course I. and take Course II. or Course IV.

Prospective candidates for special honors in Mathematics at graduation are advised to take Course V. in the Sophomore year.

VI. DIFFERENTIAL AND INTEGRAL CALCULUS. Byerly's Treatises on Differential and Integral Calculus. *Twice a week.* MR. JAMES.

Course VI. is elective for those who took Course IV. as given in 1890–91.

VII. THEORY OF EQUATIONS,—based on Burnside and Panton's treatise. *Twice a week during the first half-year.* PROFESSOR VAN VLECK.

ANALYTICAL GEOMETRY OF THREE DIMENSIONS. *Twice a week during the second half-year.* PROFESSOR VAN VLECK.

Course VII. is elective for those who have taken Courses IV. and V.

VIII. DIFFERENTIAL EQUATIONS. Johnson's Treatise on Differential Equations. *Twice a week.* MR. JAMES.

Course VIII. is elective for those who have taken Course IV. and either Course V. or Course VI.

IX. ANALYTICAL MECHANICS,—based on Sturm's Cours de Mécanique. *Three times a week.* PROFESSOR VAN VLECK.

Course IX. is elective for those who have taken Course IV. and either Course V. or Course VI.

X. ASTRONOMY,—a general course, requiring only elementary mathematics. Young's Text-book of General Astronomy. *Three times a week during the first term; twice a week during the second term.* PROFESSOR VAN VLECK.

Course X. is required of Classical and Latin-Scientific Juniors, and Scientific Sophomores.

XI. SPHERICAL AND PRACTICAL ASTRONOMY,—based on Chauvenet's Manual. *Twice (counting as three times) a week, with practical exercises in the Observatory.* PROFESSOR VAN VLECK.

Course XI. is elective for those who have taken either Course V. or Course VI.

GRADUATE INSTRUCTION. The subject chosen for graduate instruction this year is the Theory of Elliptic Functions.

PHYSICS.

PROFESSOR CRAWFORD; ASSOCIATE PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course, using Stewart's Lessons in Elementary Physics as a text-book. A more complete treatment than Stewart gives of many subjects is presented to the class, but only elementary mathematics is employed. *Twice a week during the first term, five times a week during ten weeks of the second term.* PROFESSOR ROSA.

Course I. is required of Classical and Latin-Scientific Sophomores, and Scientific Freshmen.

II. ELEMENTARY MECHANICS,—a more complete treatment of the subject than can be given in Course I. Hicks's Elementary Dynamics is used as a text-book. The course includes about twenty exercises of two hours each in the laboratory, devoted chiefly to problems involving the use of the balance, the laws of falling bodies, of friction, of the pendulum, etc. *Twice a week.* PROFESSOR CRAWFORD.

Course II. is elective for Classical and Latin-Scientific Sophomores, and Scientific Freshmen.

III. SOUND AND LIGHT. A course of lectures on Sound and Light, including an elementary mathematical discussion of vibratory motion in general. *Three times a week.* PROFESSOR CRAWFORD.

IV. 1. HEAT. Balfour Stewart's Treatise on Heat. *Three times a week during the first term.* PROFESSOR CRAWFORD.

2. ELECTRICITY. Silvanus P. Thompson's Lessons in Electricity and Magnetism, Part II. *Three times a week during the second and third terms.* PROFESSOR ROSA.

Courses III. and IV. are meant to give a more complete survey of the experimental facts of the subjects which they cover than can be given in Course I., coupled with such mathematical discussions of the theories involved as require only elementary applications of the Calculus. These courses are given in alternate years, Course IV. being given this year.

Courses III. and IV. are elective for those who have taken Course I.

V. PRACTICAL PHYSICS. The work of this course is of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, and Stewart and Gee. Experiments are assigned to each student according to his taste and skill, as well as the time which he purposes to devote to the study of physics, and the use which he expects to make of his knowledge of the subject. *Twice a week, or three times a week, each exercise occupying two and one half hours.*

Course V. is elective for those who have taken Course I.

VI. PRACTICAL PHYSICS. A continuation of the Junior laboratory course, with the same conditions as to time.

Course VI. is elective for those who have taken Course V.

In Courses V. and VI. the work in Mechanics, Sound, Light, and Heat is carried on in the Physical Laboratory in Observatory Hall, under Professor Crawford; the work in Electricity, in the Electrical Laboratory, under Professor Rosa.

GRADUATE INSTRUCTION. The course pursued this year covers Preston's Theory of Light and Fleming's Alternate Current Transformer, with advanced laboratory work in Optics and Electricity.

The following elective courses will be offered next year:—

1. APPLIED ELECTRICITY. A course of lectures giving the modern theory of the electromagnet, and applying it to dynamos, motors, and other electrical apparatus. This course will be theoretical rather than technical, and will treat especially of the recent applications of electricity. *Twice a week.* PROFESSOR ROSA.

2. MATHEMATICAL THEORY OF ELECTRICITY. A course of lectures on the theory of Electricity and Magnetism. This course will be based upon the works of Maxwell, Mascart and Joubert, Fleming, and others. The differential and integral calculus will be freely used, and an acquaintance with differential equations and solid analytical geometry will be helpful to those taking the course. *Twice a week.* PROFESSOR ROSA.

CHEMISTRY.

PROFESSOR ATWATER; ASSOCIATE PROFESSOR BRADLEY.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. The exercises consist of lectures and laboratory practice, with occasional recitations, chiefly written. Eliot and Storer's Text-book of Chemistry was used last year, as giving very convenient

descriptions of experiments. Each student performs the larger number of the experiments given in such a book, and numerous others. *Six times a week during the last twelve weeks of the year.* PROFESSOR ATWATER.

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. QUALITATIVE ANALYSIS. The course includes the usual preliminary study of reactions and subsequent analysis of complex substances, with the addition of a series of lectures on the more common metals and the chemical problems involved in their detection. *Twice a week, or three times a week, each exercise occupying at least two and one half hours.* PROFESSOR BRADLEY.

Course II. is elective for those who have taken Course I.

III. QUANTITATIVE ANALYSIS. After a series of general exercises for practice, the students are encouraged to enter upon special work, such as seems desirable in each case. Lectures are given upon quantitative work in general. *Required time the same as for Course II.* PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course II.

IV. ORGANIC AND PHYSIOLOGICAL CHEMISTRY. The exercises in this course consist of laboratory work, lectures, and recitations. The first part of the year is devoted to organic chemistry, the latter part (from about the middle of March), to physiological chemistry. *Three times a week.* PROFESSOR ATWATER and PROFESSOR BRADLEY.

Course IV. is elective for those who have taken Course II.

V. For students in the Scientific Course who desire to pursue the study of chemistry beyond the limits of Courses I.–IV., further work is provided.

VI. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Twice a week.* PROFESSOR BRADLEY.

Course VI. is elective for those who have taken Course II.

VII. GRADUATE INSTRUCTION. A course devoted mainly to research, and open to graduate students who have completed Courses I.–IV., and VI., or their equivalent.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. Leconte's Compend of Geology is used as a text-book, and is supplemented by lectures. The problems

of dynamical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. Illustrations of geological principles are taken, so far as practicable, from localities in the immediate vicinity of Middletown; and occasional excursions are arranged to give a knowledge of local geology, and to teach the student how to observe geological phenomena in general. *Twice a week during the second term, and six times a week during the third term.*

Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. ADVANCED GEOLOGY. The work of this class commences with a short course of lectures on Lithology. During the greater part of the year, informal and conversational recitations in Leconte's Elements of Geology are held three times a week. This part of the course is intended to give the student a more complete and comprehensive knowledge of the general principles of the science than can be gained in the required course. The subject of paleontology, especially, is treated much more fully than is possible in the required course. Besides the lessons in the text-book, special topics for study, with references to authorities, are from time to time assigned to each member of the class. Lectures on these topics are given by the members of the class, and are criticized and discussed. The Saturdays (except in winter) are generally occupied by excursions. In each excursion, one member of the class is appointed to present a report on the phenomena observed, in the form of a lecture to the class at its next meeting. *Three (counting as four) times a week.*

Course II. is elective for those who have taken Course I.; but it is very desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, with Geikie's Elementary Lessons as text-book. *Three times a week for thirteen weeks in the first and second terms.*

Course III. (in connection with II. Biology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

IV. MINERALOGY. This course comprises three parts, each occupying approximately one term:—1, a course of lectures on crystallography, with practical exercises in the study of crystallographic models and of crystals; 2, a brief course of lectures on optical mineralogy, and a course of laboratory work in determinative mineralogy; 3, a course

of lectures on descriptive mineralogy. The lectures on descriptive mineralogy are given in the Museum, so that the characteristics of each important mineral can be illustrated by a full suite of specimens. The works of Dana and Brush, and Williams' Elements of Crystallography, are used for reference. *Three times a week.*

Course IV. is elective for Classical and Latin-Scientific Juniors, and for Scientific Sophomores.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. The object of the course is to give the student a general knowledge of the functions of the various organs of the body in their normal condition. The origin, distribution, and final transformations of the energy of the body are treated in accordance with the doctrine of the conservation of energy. Enough anatomy is given to render the physiological discussions intelligible, and enough of hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures. *Three times a week during the first term; twice a week during the second term.*

Course I. is required of Classical and Latin-Scientific Juniors, and Scientific Sophomores.

II. GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the fern, the earthworm, and the frog, which are used as illustrating the general structure and physiology of plants and animals. This course is designed as an introduction to the studies of Botany, Zoology, and Physiology. *Three times a week during the first eight weeks of the first term.*

BOTANY. Gray's Lessons is used, accompanied by lectures on subjects not treated in the text-book. As soon as the season allows, the class-room exercises are replaced by laboratory work, including the analysis and description of plants, and the study of structural botany. Two hours in the laboratory are considered as equivalent to an hour's recitation. *Three times a week during the last third of the year.*

Course II. (in connection with III. Geology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

III. ZOOLOGY. Lectures, recitations, and class dissections. This course is designed to give the student a knowledge of the phenomena connected with life in general. Typical examples, illustrating the various groups of the animal kingdom, are described, and dissected by the class, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Twice a week.*

Course III. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

IV. PRACTICAL BIOLOGY. The Practical Biology courses are very elastic. Being laboratory courses under personal direction, they afford opportunity for wide variation to suit individual needs. The design of these courses is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mold, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. *Twice a week, or three times a week, each exercise occupying two and one half hours.*

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY. The second year is devoted to experiments in physiology, and to the study of histology, bacteriology, embryology, and mammalian anatomy. For part of the course, outside reading upon such subjects as seem most desirable for each student may be substituted, or, in particular cases, special work may be assigned. *Required time the same as in Course IV.*

Course V. is elective for those who have taken Course IV.

Courses IV. and V. are open to only a limited number of students.

GRADUATE INSTRUCTION. The graduate instruction in the department of biology includes two courses:—

VI. HISTORY OF BACTERIOLOGY,—a course of lectures. *Once a week.*

Course VI. is also required of those taking Course V., and is elective for those taking Course IV.

VII. LABORATORY WORK. The Laboratory work of the graduate student is of a different character from that of the undergraduate. Any undergraduate work that may have been omitted in his previous course is first completed, but the student is more independent, and his work is more advanced. In all cases it is expected that there will be some work of independent investigation, either on the part of the student alone, or in conjunction with the Professor.

In addition to the above, a course of reading upon the subject of evolution has been assigned, and those pursuing this course meet the Professor once a week for conference.

Tabular Statement of the Courses of Study.

Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the Courses of Instruction in that department.

The Arabic numerals indicate approximately the whole number of exercises for the year in the respective studies.

In addition to those studies which are specified as required, each student must choose enough elective studies to make his whole number of lectures or recitations not less than fourteen, nor more than seventeen, per week. In making up this quota, studies which count for more than the number of exercises actually held, are indicated by numbers added in a parenthesis.

Studies marked by a * are omitted the current year.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	132	I. English Language,	50
I. Greek,	132	I. Mathematics,	132

ELECTIVE.

I. German,	99	I. French,	99

SOPHOMORE YEAR.

REQUIRED.

II. Latin, or III. Latin,	66 / 99	II. Mathematics, or IV. Mathematics,	39 / 66
II. Greek,	66	I. Physics,	75
Rhetoric,	54	I. Chemistry,	68
Logic,	30		

ELECTIVE.

IV. Latin,	33	III. Mathematics,	66
*VI. Latin,	33	V. Mathematics,	66
VII. Latin,	33	II. Physics,	66
III. Greek,	33	Physical Geography,	39
II. German,	99	General Biology,	24
II. French,	66	Botany,	36
III. French,	33		

JUNIOR YEAR.

REQUIRED.

Constitution of U. S., - 30
Psychology, - - - 54
Astronomy, - - - 63
I. Geology, - - - 72
Physiology, - - - 63

ELECTIVE.

*V. Latin, - - - 33
*VIII. Latin, - - 66
IX. Latin, - - - 66
X. Latin, - - - 66
*IV. Greek, - - 99
V. Greek, - - - 99
VI. Greek, - - - 66
*VII. Greek, - - 66
Hebrew, - - - 165
*III. German, - - 66
IV. French, - - 66 (99)
Italian, - - - 66
I. English Literature, - 99
*IV. English Language, 66 (99)
VI. English Language, 66 (99)
Elocution, - - - 66
*I. History, - - - 66 (99)
II. History, - - - 99
III. History, - - 66
V. History, - - - 66
III. Philosophy, - - 66
VI. Mathematics, - - 66
VII. Mathematics, - 66
*III. Physics, - - 99
IV. Physics, - - - 99
V. Physics, - - 66 or 99
II. Chemistry, - 66 or 99
Mineralogy, - - - 99
Zoology, - - - 66
IV. Biology, - - 66 or 99
VI. Biology, - - - 31

SENIOR YEAR.

REQUIRED.

Political Economy, - 70
Christian Evidences, - 26
Ethics, - - - - 26

ELECTIVE.

XI. Latin, - - - 124
VIII. Greek, - - 93
*IV. German, - - 62
II. English Literature, 62 (93)
III. English Literature, 31
V. English Language, - 31
VI. History, - - 62
II. Economics, - - 31
III. Economics, - - 62
IV. Philosophy, - - 62
V. Philosophy, - - 31
Theism, - - - 31 (62)
VIII. Mathematics, - 62
IX. Mathematics, - - 93
Practical Astronomy, - 62 (93)
VI. Physics, - - 62 or 93
III. Chemistry, - 62 or 93
IV. Chemistry, - - 93
VI. Chemistry, - - 62
II. Geology, - - 93 (124)
V. Biology, - - 62 or 93

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	132	Physical Geography,	39
I. English Language,	50	General Biology,	24
I. Mathematics,	132	Botany,	36

ELECTIVE.

I. German,	99	II. French,	66
II. German,	99	III. French,	33
I. French,	99		

SOPHOMORE YEAR.

REQUIRED.

Rhetoric,	54	I. Physics,	75
Logic,	30	I. Chemistry,	68
II. Mathematics, or IV. Mathematics,	39 or 66		

ELECTIVE.

II. Latin,	66	IV. French,	66 (99)
III. Latin,	99	III. Mathematics,	66
IV. Latin,	33	V. Mathematics,	66
*VI. Latin,	33	II. Physics,	66
VII. Latin,	33	Zoology,	66
*III. German,	66		

JUNIOR YEAR.

REQUIRED.

Constitution of U. S.,	30	I. Geology,	72
Psychology,	54	Physiology,	63
Astronomy,	63		

ELECTIVE.

*V. Latin,	33	Italian,	66
*VIII. Latin,	66	I. English Literature,	99
IX. Latin,	66	*IV. English Language,	66 (99)
X. Latin,	66	VI. English Language,	66 (99)
Hebrew,	165	Elocution,	66
*IV. German,	62	*I. History,	66 (99)

II. History,	99	IV. Physics,	99
III. History,	66	V. Physics,	66 or 99
V. History,	66	II. Chemistry,	66 or 99
III. Philosophy,	66	Mineralogy,	99
VI. Mathematics,	66	IV. Biology,	66 or 99
VII. Mathematics,	66	VI. Biology,	31
*III. Physics,	99		

SENIOR YEAR.

REQUIRED.

Political Economy,	70	Ethics,	26
Christian Evidences,	26		

ELECTIVE.

XI. Latin,	124	VIII. Mathematics,	62
II. English Literature,	62 (93)	IX. Mathematics,	93
III. English Literature,	31	Practical Astronomy,	62 (93)
V. English Language,	31	VI. Physics,	62 or 93
VI. History,	62	III. Chemistry,	62 or 93
II. Economics,	31	IV. Chemistry,	93
III. Economics,	62	VI. Chemistry,	62
IV. Philosophy,	62	II. Geology,	93 (124)
V. Philosophy,	31	V. Biology,	62 or 93
Theism,	31 (62)		

SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. English Language,	50	General Biology,	24
II. Mathematics, or IV. Mathematics,	39 / 66	Botany,	36
I. Physics,	75	I. German, / II. French,	99 / 66
I. Chemistry,	68	II. German, / I. French,	99 / 99
Physical Geography,	39		

Students must take the first two, or the second two, of the above courses in Modern Languages, according as they have passed in the French or the German required for admission. In the former case they must take II. German, in the latter case, II. French, in Sophomore year.

ELECTIVE.

III. French, - -	33	V. Mathematics, - -	66
III. Mathematics, -	66	II. Physics, - - -	66

Students taking one or more of these electives may postpone till Sophomore year part of the required work specified above.

SOPHOMORE YEAR.

REQUIRED.

II. German, - -	99	Logic, - - - -	30
or		Astronomy, - - -	63
II. French, - -	66	I. Geology, - - -	72
Rhetoric, - - -	54	Physiology, - - -	63

ELECTIVE.

*III. German, - -	66	IV. Physics, - - -	99
IV. French, - -	66 (99)	V. Physics, - -	66 or 99
VI. Mathematics, -	66	II. Chemistry, -	66 or 99
VII. Mathematics, -	66	Mineralogy, - - -	99
*III. Physics, - -	99	Zoology, - - -	66

JUNIOR YEAR.

REQUIRED.

Constitution of U. S., -	30	Psychology, - - -	54

ELECTIVE.

Hebrew, - - -	165	III. Philosophy, - -	66
*IV. German, - -	62	VIII. Mathematics, -	62
Italian, - - -	66	IX. Mathematics, - -	93
I. English Literature, -	99	Practical Astronomy, -	62 (93)
*IV. English Language,	66 (99)	VI. Physics, - -	62 or 93
VI. English Language,	66 (99)	III. Chemistry, -	62 or 93
Elocution, - - -	66	IV. Chemistry, - -	93
*I. History, - -	66 (99)	VI. Chemistry, - -	62
II. History, - -	99	II. Geology, - -	93 (124)
III. History, - -	66	IV. Biology, - -	66 or 99
V. History, - - -	66	VI. Biology, - - -	31

SENIOR YEAR.

REQUIRED.

Political Economy, -	70	Ethics, - - - -	26
Christian Evidences, -	26		

ELECTIVE.

II. English Literature, -	62 (93)	IV. Philosophy, - -	62
III. English Literature,	31	V. Philosophy, - -	31
V. English Language, -	31	Theism, - -	- 31 (62)
VI. History, - -	62	V. Chemistry, -	- 62 or 93
II. Economics, - -	31	V. Biology, - -	- 62 or 93
III. Economics, - -	62		

In addition to the courses indicated in the foregoing tabular statement, exercises in English composition and public speaking are required of all the classes, as specified on pages 39, 40, and 41.

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on page 61. In that table each study is assigned to that year to which it belongs in the Classical Course. Exercises named without any sign or initial are daily exercises. Letters following the names of studies indicate the days of the week on which exercises in those studies occur. Letters followed by 2 or 3, indicate that an exercise occurs on the specified day in alternate weeks. The number 2 indicates that the exercise occurs in the second full week of the year, and in every alternate full week thereafter. The number 3 indicates that the first exercise occurs in the third full week. The sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals, preceding the names of certain studies, refer to the numbers of the courses as enumerated in the above statement of the Courses of Instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.

The Physical and Biological Laboratories are open Tuesday, Wednesday, and Thursday, and the Chemical Laboratory is open Monday, Wednesday, and Friday, from 2 P. M. to 5 P. M.

DAILY PROGRAMME.

SENIORS.	JUNIORS.	SOPHOMORES.	FRESHMEN.
8. Latin Seminary. M., W. Hist. Political Economy. Tu. Finance. Th., F. Practical Astronomy. M. IV. Chemistry. W.	Astronomy. I. Geology. } S. Physiology. V. Greek. Tu., Th., F. VI. Greek. M., W. Mineralogy. Tu., W., F.	I. Physics. I. Chemistry. } S. II. Mathematics. 2. M., W., F. I. Physics. 2. Tu., Th. II. French. M., Th. V. Mathematics. Tu., W.	I. Rhetoric. S. 1. I. German. 1. Tu., W., F.
9. Latin Seminary. M., W. VIII. Greek. Tu., Th., F. II. English Literature. 2. Tu., W. Practical Astronomy. F. VI. Chemistry. M., Th.	Psychology. M., Tu., Th. Constitution of U. S. M., Th. European History. W., F. VI. Mathematics. W., F.	II. Greek. M., W. II. Rhetoric. Tu., Th., F. Logic. 1. Tu., Th. French Conversation. W.	Trench's English. W. I. Latin. 1. M., Tu., Th., F. I. Mathematics. 2. M., Tu., Th., F.
10. II. English Literature. 1. Tu., W. Literary Criticism. F. Beowulf. W. VI. History. M., Th. IX. Mathematics. M., Tu., F.	X. Latin. M., F. II. History. Tu., W., F. VII. Mathematics. Th. IV. Physics. Tu., W., F. Zoology. M., Th. Declamation. 4, 5, 6, 7. Th.* Declamation. 8. W.*	III. Latin. Tu., W., Th. IV. Mathematics. Tu., F. Elect. Mechanics. M., Th. Biology. Botany. } Tu., W., F. Physical Geography.	I. Greek. 1. M., Tu., Th., F. I. German. 2. Tu., W., F.
11. IV. Philosophy. Tu., F. V. Philosophy. W. VIII. Mathematics. W., Th. IV. Chemistry. Tu., F. II. Geology. Tu., W., F.	IX. Latin. M., Th. IV. French. Tu., F. I. English. Lit. Tu., W., F. III. Philosophy. M., Th. VII. Mathematics. M. Declamation. 1, 2, 3. Th.*	Greek Life. Tu. II. German. M., W., Th. III. Mathematics. W. Elect. Mechanics. M., Th. Biology. Botany. } Tu., W., F. Declamation. 4. W.*	I. Greek. 2. M., Tu., Th., F. Declamation. 1. W. 3.
12. Ethics. Evidences. } W., Th. Political Economy. M. Political Economy. 1. Tu. Forensics. F.*	Astronomy. I. Geology. 1. Physiology.	II. Mathematics. 1. M., W., F. I. Physics. 1. Tu., Th. I. Chemistry.	I. Latin. 2. M., W., Th., F. I. Mathematics. 1. M., Tu., W., F.
2.	Hebrew.	Declamation. 1. Tu.* Declamation. 2. W.* Declamation. 3. Th.*	Declamation. 2. W. 3. Declamation. 3. Th. 3. Declamation. 4. Tu. 3.
3. Theism. W. Political Economy. 2. Tu.	I. Geology. 2. Italian. M., F. Early English. Tu., Th. Elocution. Tu., Th. Roman Jurisprudence. M., F.	II. Latin. M., F. Logic. 2. Tu., Th. IV. Latin. Tu. VII. Latin. Th. Composition. W.*	I. Mathematics. 3. M., Tu., W., F. I. French. Tu., W., Th.

GENERAL REGULATIONS.

SELECTION OF STUDIES.

In making a selection among the elective studies, the following rules are to be regarded:—

A student may take elective studies assigned to a class below his own, as well as those assigned to his own class; but not those assigned to a class above his own, except by special permission of the Faculty. The election must in all cases be made for the whole year, no changes from one department to another being permitted during the year. Studies must be selected whose hours of recitation do not conflict with each other, as indicated by the Daily Programme on page 61. The student's selection must in all cases be subject to the approval of the Faculty.

In order to avoid misunderstanding, each student is required to present to the Secretary of the Faculty, on the first day of the first term, a list of the studies which he desires to take.

EXAMINATIONS.

Examinations, either oral or written, are held in all the studies of the course. The oral examinations are held near the close of the college year, and are conducted before an Examining Committee appointed by the Executive Committee of the Trustees. Written examinations are held at the end of each term, and during a specified week in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study, can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In this case the instructor may require the student to pass a preliminary examination before admitting him to the regular examination.

Special examinations will be held during the third term for those who have been absent, by permission, from the regular examinations which have occurred in the previous part of the year.

A special examination will be held, commencing on the Tuesday before the beginning of the first term, for those who have failed to

pass any of the examinations of the preceding year. Students who fail to pass at this examination are, in certain cases, required to attend recitations with the next class in the studies in which they are deficient, and to be examined with the class at the regular time.

A student desiring to take more than the prescribed quota of elective studies may present himself at the special examination, at the beginning of the first term, to be examined in advance in any required study, and, on showing evidence of a high degree of proficiency, he may be excused from recitation in that study.

PUBLIC WORSHIP.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city. Each student is allowed to elect what church he will attend, and is required to report such election to the Registrar at the beginning of each college year.

Voluntary religious services under the direction of the Faculty, the several college classes, and the Young Men's Christian Association, are held weekly.

LEAVE OF ABSENCE.

No absence from town will be excused unless permission for such absence has first been obtained from the President.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	$75 00
Room Rent, for half-room, from $12.00 to $50.00; average,	26 00
Steam-heat; average for half-room,	10 00
General Repairs and Incidental Expenses,	24 00
Use of Library and Reading Rooms,	6 00
Total,	$141 00

Students in Practical Chemistry are charged for the use of apparatus, for chemicals, and for incidentals. The charge averages about nine dollars a term for quantitative, and about six dollars for qualitative analysis.

A fee of five dollars a term is charged to each student in Practical Physics, and also to each student in Practical Biology.

Ladies residing in the Ladies' Hall are charged at the rate of five dollars, or five dollars and a half, a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Hall.

A diploma fee of five dollars is charged to each student at graduation.

Persons holding *free*, *personal*, or *transferable* scholarships are exempt from charges for tuition.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on the day appointed. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board must in all cases be subject to the approval of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Gentlemen rooming in the college buildings provide for themselves furniture and lights.

Board may be obtained in private families at prices varying from $4.00 to $4.50 a week. A large majority of the students board in clubs, at prices ranging from $3.00 to $3.50 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and healtn have been compelled to leave the college for want of money.

MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOM.

The Library in Rich Hall contains about thirty-nine thousand volumes. The Library hall is open every week-day of term time, except Saturdays, from 10 A. M. to 1 P. M., and from 2.30 to 4.30 P. M.; on Saturdays, from 9 A. M. to 12 M., and from 1 P. M. to 3 P. M. No student may take from the Library more than two books at a time, without special permission; books are loaned for two weeks, with the privilege of renewal, in the case of most books, for two weeks longer.

Books reserved by request of officers of instruction as collateral reading for students in their classes are shelved in the Library reading-room, can be taken out only at the close of library hours, and must be returned upon the opening of the Library.

Students are allowed direct access to the shelves.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. The second, or Library reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Members of the Junior class have frequent opportunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical Astronomy are instructed in the theory and use of all the instruments in the Observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE BIOLOGICAL LABORATORY occupies five rooms in Judd Hall, and is capable of accommodating about twenty students. Three rooms are used as a general laboratory, and are equipped for the advantageous prosecution of elementary biological work, being supplied with microscopes, micrometers, water baths, warm chambers, dissecting apparatus, etc., together with abundance of material for anatomical and histological study and dissection. The Laboratory has also the use of the large museum collection for comparison and direct study. A fourth room is devoted to physiological experiments, and is equipped with necessary apparatus for such work. A fifth room is used as a Bacteriological Laboratory.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of most of the experiments usually undertaken in undergraduate courses; while, in the department of electricity, recent large additions of apparatus and machinery afford facilities for extended research, and for instruction in the use of all important electrical instruments. The laboratory work in all departments except electricity is carried on in the rooms on the ground floor of Observatory Hall as heretofore. The building originally used as a chemical laboratory has been transformed into an electrical laboratory, in which the water, steam, and gas pipes are of brass, thus affording a nearly undisturbed magnetic field, while the dynamos and associated instruments, and also a well-equipped workshop, are located at a convenient distance from the electrical laboratory in the boiler house.

The most important pieces of apparatus and machinery used in the laboratory are the following:—Cathetometer, by Bamberg; balance, by Bunge; three balances, by Becker; reversion pendulum, by Société Genevoise; Geissler pump; small goniometer, seven-inch circle, by Elliott Bros.; large goniometer, by Hilger, with 18-inch circle (graduated by Troughton and Simms); heliostat, by Brashear; diffraction gratings; diffraction bench, by Duboscq; photometric apparatus; Jolly's air thermometer; calorimeter, by Edelmann; most of the important pieces of Koenig's acoustic apparatus; Thomson's mirror galvanometer; Thomson's centi-ampere electrical balance; Thomson's portable electrometer; Mascart's quadrant electrometer; tangent and astatic galvanometers; resistance boxes, by Elliott Bros., and Queen & Co.; induction coils, by Ruhmkorff and Ritchie; Carhart's standard cell; Kohlrausch's bridge for resistance of liquids; Weston's ammeters and voltmeters (two each); Cardew voltmeter; Siemens' electrodynamo-

meter; standard ten-ohm coil from the Cavendish Laboratory; Thomson's rheostat; several reading telescopes; and a storage battery consisting of 56 Julien cells.

The principal machines in the dynamo room and workshop are the following:—A 25-horse power Ball engine; Edison 5-kilowatt compound dynamo with indicator, ammeter, and rheostat; Edison 3-kilowatt shunt motor; Edison half-kilowatt motor and smaller fan motor; Westinghouse "pony" alternating current dynamo with ammeter, transformer, alternating current motor, and Shallenberger meter; Excelsior alternating motor; tachometer; Thomson wattmeters (for direct and alternating currents), and transformer; Stanley transformer; Walker recording ammeter; Reed lathe; American Watch Tool Co.'s lathe; Barnes drill; Garvin milling machine; and suitable outfit of hand and machine tools. The shop is in charge of a skilled mechanician who will construct special pieces of apparatus for lecture and laboratory use.

THE CHEMICAL LABORATORY occupies five rooms in Judd Hall, with store-rooms in the basement. A large working-room on the first floor, with a balance-room adjoining, furnishes accommodations for about twenty-five students in analytical chemistry, and a smaller laboratory affords conveniences for the work of instructors and graduate students. A large room in the basement has recently been furnished and set apart for the laboratory work of the required course in Chemistry.

The rooms of the Physical Laboratory and some of the rooms of the Chemical and Biological Laboratories, are lighted by electricity.

AGRICULTURAL EXPERIMENT STATION.—Through the courtesy of the Trustees of the University, the chemical investigations of the Storrs School Agricultural Experiment Station, of which Professor Atwater is Director, are conducted in one of the rooms of the Chemical Laboratory. This work is under the direction of Mr. Charles D. Woods. During the past year, investigations have been made into the acquisition of atmospheric nitrogen by plants, the chemical composition of plants as affected by nitrogenous fertilizers, and the heats of combustion of organic substances. Researches into the bacteriology of milk are conducted for the Station in the Biological Laboratory of the University, by Professor Conn.

MUSEUM.

The Museum of Natural History occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to educational purposes, and are freely accessible to students.

The nucleus of the Departments of Zoölogy and Botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique.

The following is an approximate statement of the number of specimens in the various departments of the Museum:—

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110

Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	150
Fishes,	2,100
Insects—pinned and alcoholic,	3,800
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Cœlentera,	1,500
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,700
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	10,500
Fossils—Paleozoic,	2,700
Mesozoic,	800
Cenozoic,	2,000

The Museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A number of Scholarships exempting the holders from the charge for tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This Scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is to be given annually to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this Scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

This Scholarship was awarded for the year 1890–91 to Frederick Allen King.

THE SQUIRE SCHOLARSHIP.

This Scholarship, founded by Hon. Watson C. Squire, B. A., has been so far increased by him, that the income of $5,000 will be awarded to that member of the Senior class who shall pass the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of a committee of the Faculty.

This Scholarship was awarded, on the basis of the work done in the year 1890–91, to Tibbitts Walker, B. A., this year a resident student in Greek and History.

THE SENEY SCHOLARSHIPS.

These have been established by George I. Seney, M. A. They are forty-eight in number, and are divided among the classes equally.

They will be awarded on the basis of the merit-roll, under such conditions as the founder of the Scholarships has prescribed. Their precise value for any year will depend on the income of the Scholarship Fund. For the present year they will range from fifty to one hundred and fifty-five dollars. It is stipulated by the founder of the Scholarships that no student shall be considered a candidate for any one of them who was not in attendance upon college exercises throughout the year for which the Scholarship is awarded, nor shall any Scholarship, though awarded, be paid to one who is absent from college during the year, or during any considerable part of the year in which it is payable. No one who is regularly employed as a preacher or teacher shall, during the year in which he is so occupied, be considered a candidate for any of these Scholarships. Nor shall any student be considered as a candidate for them during any year in which he shall have been the subject of serious college discipline, or in which, by reason of excess of absences, he shall have been excluded from examination.

The Scholarships for the three lower classes will be awarded as soon after the beginning of each academic year as the record of standing for the previous year can be prepared; and will be paid in three installments:—the first, immediately upon the assignment of the Scholarships; the second, at the beginning of the second term; the third, at the beginning of the third term.

The Senior Scholarships will be awarded in the week preceding Commencement, and will be paid at that time in one payment.

The College assumes responsibility for the payment of the Scholarships only to the measure of the income of the Scholarship Fund.

The Seney Scholarships have been awarded on the basis of the merit-roll of 1890–91, to the following persons:—

Class of 1891.—George Hamilton Bickford, Belle Evangeline Graves, Albert Elmer Hancock, John Evan Jenkins, Linnæus Edford La Fétra, Ludwig August Lange, Frank Bowers Littell, Ernest Loren Meritt, John George Mitchell, Charles Harrison Page, Jr., Charles Wilfred Savage, Clinton Chandler Stevens.

Class of 1892.—Lena Maud Adams, John Hendley Barnhart, Arthur Peyton Bryant, George Willets Davison, Charles Myron Drew, Lincoln Robinson Gibbs, Charles Stanton Hill, Arthur Birdsey Miller, Charles Allison Miller, John Stephenson Pullman, Edward Loranus Rice, Egbert James Tamblyn.

Class of 1893.—Sarah Langton Abbott, Winfred Chandler Akers,

George Hubbard Blakeslee, Frederic Cutts, Charles Gourlay Goodrich, Lorenzo Walter Hadley, Wesley Elwell Lake, Vida Frank Moore, Maud Eliza Muzzy, Lewis Johnson Norton, Frederick Curry Ostrander, Ashley Horace Thorndike.

Class of 1894.—Abraham Howry Espenshade, Alice Cora Fuller, Arthur Mathews Gates, Roscoe Allan Grant, Florence Alberta Graves, Joseph Hubbard Hefflon, Charles Hubbard Judd, Susie Jane Mantle, Wilbur John Sawyer, William Leonard Snow, Henry Archelaus Tirrell, Harry Reed Van Deusen.

COLLEGE HONORS.

PRIZES.

The following prizes will be awarded during the present year:—

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior class whose oration at Commencement shall be deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before Tuesday, June 21st.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior class who shall excel in English Composition. The subject for the essay of 1892 is, Realism in Imaginative Literature. The subject for the essay of 1893 is, The Political and Social Ideas of Thomas Carlyle. The essays must be left with the Professor of English Literature on or before the first Monday of the third term.

The Harrington Prize will be awarded to that member of the Senior class who shall excel in History. It will be given in 1892 upon a special examination in the history course marked III. in the present catalogue, page 42.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior class who shall write the best essay on Political Economy. The subject for the essay of 1892 is, The History and Theory of Rent. The essays must be left with the instructor of the department on or before the first Monday in May.

A prize will be awarded to that member of the Senior class who shall excel in Christian Evidences.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded to that member of the Senior, Junior, or Sophomore class who shall excel in Natural Science. The examination for this prize this year will be in Physiology.

The G. Brown Goode Prize, the gift of G. Brown Goode, LL. D., will be given for the best Original Investigation in the department of Natural History.

Two prizes will be awarded, as a first and second prize, respectively, to the two members of the Junior class who shall present the best orations at the annual Junior Exhibition. In the decision of these prizes, both the composition and the delivery of the orations will be considered.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior class who shall excel in English Literature.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior class who shall excel in Logic.

A prize will be awarded to that member of the Junior class who shall excel in debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be given to that member of the Junior class who shall excel in Psychology.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded, in the same classes, as a second prize for excellence in Elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore class who shall excel in Greek.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore class who shall excel in Latin.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman class who shall excel in Latin.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman class who shall excel in Declamation.

The Ayres Prizes, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in either of the college classes, who shall write the best English poem. The poem must be left with the Professor of English Literature before the Senior Examination.

The designation of the classes to which the prizes are offered is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold either of these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:—

The Rich Prize, to Eugene Allen Noble.
The Olin Prize, to Frederick Allen King.
The Harrington Prize, to George Hamilton Bickford.
The Wise Prize to John Evan Jenkins.
The Joseph D. Weeks Prize, to John Evan Jenkins.
The Prize in Christian Evidences, to Linnæus Edford La Fétra.
The Peirce Prize, to Edward Loranus Rice.
The First Junior Exhibition Prize, to Everett Hallerton Scott.
The Second Junior Exhibition Prize, to William Henry Kidd.
The Camp Prize, to Edward Loranus Rice.
The Weeks Prize, to George Willets Davison.
The Prize for Debate, to Everett Hallerton Scott.
The Walkley Prize, to Lincoln Robinson Gibbs.
The Parker Prize, to Theodore Sommers Henderson.
The Scranton Prize, to Albert Lyon Crowell.
The Spinney Prize, to Edgar Van Fossen Du Bois.
The Phi Beta Kappa Prize, to George Hubbard Blakeslee.
The Rice Prize, to Lewis Johnson Norton.
The Sherman Prize, to Wilbur John Sawyer.
The Hibbard Prize, to Joseph Hubbard Hefflon.

The Ayres Prize for the present year has been awarded to Merle Bowman Waltz.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to the standing in Composition and Declamation subsequent to the Freshman year. The speakers at Commencement are selected according to the

standing in Composition and Declamation subsequent to the Sophomore year. The number of speakers at each of these public exercises is limited to ten. The speakers last year were:—

AT THE JUNIOR EXHIBITION.—Lincoln Robinson Gibbs, Harvey Carson Grumbine, Charles Stanton Hill, William Henry Kidd, John Stephenson Pullman, Edward Loranus Rice, Everett Hallerton Scott, Roger Everett Thompson.

AT COMMENCEMENT.—Lloyd Hawley Andrews, George Hamilton Bickford, Albert Elmer Hancock, John Evan Jenkins, Frederick Allen King, Linnæus Edford La Fétra, John George Mitchell, Eugene Allen Noble.

HONORS IN SCHOLARSHIP.

1. HONORS IN GENERAL SCHOLARSHIP.—There are two grades of honor conferred at graduation, based upon the general scholarship of the student throughout his whole course. Eighty-eight per cent. of the maximum standing entitles a student to the first grade of honor, and eighty-three per cent. to the second grade.*

2. HONORS IN SPECIAL DEPARTMENTS.—Special honors are also given at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History, Political and Social Science; Philosophy; Mathematics; Physics; Chemistry; Biology; Geology.

The conditions upon which these special honors are given are as follows:—

(1) The candidate must apply to the officer of the department in which he proposes to take honors, not later than the first Monday in May in the Junior year.

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must maintain an average standing of 83 per cent. after the beginning of his Sophomore year; provided, however, that if he maintain a standing of 88 per cent. in such of these studies as he pursues in his Junior and Senior years, the standing of the Sophomore year may be ignored.

(3) No student shall be given special honors who shall fail to pass in any study of the last two years of the course.

*The scale of marking in practical use is such that the best students in any department receive about ninety-two per cent. of the absolute maximum.

(4) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading or investigation as shall be prescribed by the officer in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

(5) In addition to other requirements, every candidate for special honors shall be required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination shall be oral, and shall be conducted in the presence of a committee of the Faculty.

(6) No examination for special honors shall be given, and no thesis or other work in preparation for special honors shall be received, after the second Saturday preceding Commencement.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. All the courses in Latin except Course II.

2. The required courses in Greek; or the first two courses in German, the first two courses in French, and the course in Italian.

Greek.—1. All the courses in Greek, except one of the courses in Biblical Greek.

German.—1. All the courses in German.

2. The first two courses in French.

3. The course in Anglo-Saxon.

Romance Languages.—1. All the courses in French and Italian.

2. The first two courses in German.

English.—1. The required courses in English, including Composition.

2. One of the following groups of elective courses:—

(a.) Anglo-Saxon, Early English, and all the elective courses in English Literature.

(b.) Anglo-Saxon, Early English, Course I. in English Literature, and Courses I. and II. in German.

(c.) The elective courses in English Literature, Anglo-Saxon, or Early English, and Course I. in History.

History, and Political and Social Science.—All the courses, required

and elective, in History and Jurisprudence, and in Economics and Social Science.

Philosophy.—(a.) General Philosophy.—1. The five courses in Philosophy.

2. The three courses in Ethics and Evidences of Christianity.

(b.) Psychology.—1. The five courses in Philosophy.

2. The course in Ethics.

3. The required course in Physiology, and either the course in General Biology or one course in Practical Biology.

Mathematics.—1. All the courses in Mathematics and Astronomy, except Courses II. and III., and either Course V. or Course VI.

2. The required course in Physics.

Physics.—1. The Sophomore required course in Physics, and the Sophomore elective course in Mechanics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises per week).

3. Any three of the following courses:—Sound and Light, Heat and Electricity, Applied Electricity, Mathematical Theory of Electricity, Analytical Mechanics.

4. Course I. in Chemistry.

5. Either Course II. in Chemistry, or Course V. in Mathematics.

Chemistry.—1. All the courses in Chemistry, except Course V.

2. The required course in Physics.

3. Course III., IV., or V. in Physics, or one course in Practical Biology.

Geology.—1. The required courses in Geology and Physiology.

2. The elective courses in Zoölogy, General Biology and Botany, and Physical Geography.

3. The course in Mineralogy, and Course II. in Geology.

4. Either Course IV. in Biology, or Course II. in Chemistry.

Biology.—1, 2. Same as for Geology.

3. Two years of Practical Biology.

4. Either Course II., or Course IV., in Chemistry.

The honors, both general and special, are stated in the diploma; and the names of students who take honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:—

GENERAL SCHOLARSHIP.—*First Grade.* George Hamilton Bickford, Albert Elmer Hancock, John Evan Jenkins, Linnæus Edford La Fétra, Frank Bowers Littell.

Second Grade. Lloyd Hawley Andrews, Charles Wood Coulston, Belle Evangeline Graves, Ernest Loren Meritt, John George Mitchell, Charles Harrison Page, Jr., Charles Wilfred Savage, Arthur Willis Smith, Clinton Chandler Stevens.

SPECIAL DEPARTMENTS.—*English Literature.*—1. The Writings of William Wordsworth, with thesis on Wordsworth's Philosophy of Life.

To Frederick Allen King.

With thesis on the Creative Imagination of Wordsworth.

To Albert Elmer Hancock.

2. The Writings of Edmund Burke, with thesis on Edmund Burke as a Reformer.

To George Hamilton Bickford.

With thesis on the Political Consistency of Burke.

To Ludwig Ernest Lange.

Mathematics. Problems in Analytical Mechanics.

To Frank Bowers Littell and Charles Wilfred Savage.

Biology. Bacteriology, with thesis on Immunity from Disease.

To Linnæus Edford La Fétra.

DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

MASTER OF ARTS AND MASTER OF SCIENCE.—Hereafter the degrees of Master of Arts and Master of Science will be conferred in accordance with the following regulations adopted by the Trustees at their annual meeting in June, 1889:—

1. The degree of Master of Arts may be conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the

satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. Said course of study shall be under the full direction of a Committee of the Faculty on Graduate Instruction, to be composed of three permanent members with the addition of the instructor in charge of each department in which the candidate shall pursue work. Evidence of the candidate's proficiency in the approved studies shall be given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the Committee may prescribe. All such tests of proficiency shall be under the direction of the Committee, and they shall report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who shall pass such additional examinations as the Committee may prescribe, the degree of Master of Arts may be conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts may also be conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced non-professional study pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations shall hold in the case of non-resident as in the case of resident students. The degree may also be conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate shall have spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science may be conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions that govern in the case of the degree of Master of Arts.

5. A fee of ten dollars shall be required from each graduate student upon promotion to the Master's degree.

In accordance with the above regulations, the Faculty have appointed Professors Rice, Conn, and Merrill permanent members of the Committee on Graduate Instruction, and to them, or to the head of any one of the departments of instruction, may be addressed communications from prospective graduate students.

At the last Commencement, degrees were conferred as follows:—

THE DEGREE OF B. A. was conferred on:—Lloyd Hawley Andrews, George Hamilton Bickford, Frederick Elias Bragdon, Charles Woods Coulston, Frank Prescott Fogg, Cyrus David Foss, Jr., Frederick Allen King, Linnæus Edford La Fétra, Ernest Loren Meritt, John George Mitchell, Ellis Walker Moore, Charles Harrison Page, Jr., Ellen Mary Brainerd Peck, George Lincoln Plimpton, George Henry Rogers, Arthur Willis Smith, Harry Monmouth Smith, Clinton Chandler Stevens, Edgar Jerome Thayer, Tibbitts Walker, Charles Tapley Winchester.

THE DEGREE OF PH. B. was conferred on:—Edwin Daniel Arnold, Henry Archer Cleaver, Belle Evangeline Graves, Ralph Barnes Hibbard, Samuel Pierson Hildreth, John Evan Jenkins, Ludwig August Lange, Frank Bowers Littell, Eugene Allen Noble, Marie Mehetabel Strobridge.

THE DEGREE OF B. S. was conferred on:—Lucien Samuel Bayliss, Charles Ridgway Blundell, Waters Burrows Day, Albert Elmer Hancock, Everett Hiram Osborn, Charles Wilfred Savage, Henry Bloodgood Slayback.

THE DEGREE OF M. S., on examination, was conferred on Frank Burnett Dains.

THE DEGREE OF M. A., in course, was conferred on:—Frederick Gibbs Axtell, Harry Harvey Beattys, William Evans Bruner, William Morton Cassidy, Charles Phillips Cooper, William Elliott Foster, Roland Wilkins Guss, George Dempster Hamlen, Howard Hornbeck Hawxhurst, Fred Alexander Hillery, Thomas Arthur Humason, Robert Seney Ingraham, William Avery Knox, Harry Kaiser Munroe, Theophilus England Niles, Theodore Richards, William Barnard Smith, Thomas Dudley Wells, Mary Elizabeth Smith Mendall-White, of the Class of 1888; also upon Ebenezer Hill, of the Class of 1870; and upon William Day Leonard, of the Class of 1878.

THE DEGREE OF D. D. was conferred on:—Rev. Thomas Jefferson Bissell, M. A., of Rochester, N. Y.; Rev. George Harrison McGrew, M. A., of New York City; Rev. James Mudge, M. A., of Clinton, Mass.

THE DEGREE OF LL. D. was conferred on Hon. Alonzo Jay Edgerton, M. A., Justice of the U. S. District Court of South Dakota.

OBITUARY RECORD.—Obituary notices of deceased graduates of the University are published annually. All persons who can supply information appropriate to the future editions of this Record, are urgently requested to communicate the same to Professor L. O. Kuhns.

ALUMNI RECORD.—Through the liberality of Orange Judd, Esq., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Librarian, W. J. James. The price of the Record, when sent by mail, is two dollars and twenty-five cents.

Information in regard to changes of residence or address of Alumni, or to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with the Librarian, W. J. James.

CALENDAR.

1891.

Sept. 17, Thursday—First Term commenced.
Dec. 23, Wednesday—First Term will close.

1892. VACATION OF TWO WEEKS.

Jan. 7, Thursday—Second Term will commence.
Jan. 28, Thursday—Day of Prayer for Colleges.
Feb. 8—Feb. 13,—Mid-year Examinations.
April 6, Wednesday—Second Term will close.

VACATION OF ONE WEEK.

April 14, Thursday—Third Term will commence.
April 28, Thursday—Junior Exhibition.
June 8, Wednesday—Senior Examination will commence.
June 8, Wednesday—Prize Debate and Declamation.
June 21, Tuesday—Annual Examination will commence.
June 24, Friday—Prize Declamation.
June 26, Sunday Morning—Baccalaureate Sermon.
June 26, Sunday Evening—University Sermon.
June 27, Monday—Class Day.
June 28, Tuesday—Anniversaries of the Literary Societies.
June 28, Tuesday—Meeting of the Board of Trustees at 9 o'clock, A. M.
June 28, Tuesday—Business Meeting and Anniversary of the Alumni Association.
June 28, Tuesday—Reunion of Classes of 1842, '67, '77, '85, '89.
June 29, The last Wednesday of June—COMMENCEMENT.
June 30, Thursday—Examination of candidates for admission will commence.

VACATION OF ELEVEN WEEKS.

Sept. 13, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 14, Wednesday—Examination of candidates for admission will commence.
Sept. 15, Thursday—First Term will commence.
Dec 21, Wednesday—First Term will close.

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CALENDAR, 1892

JANUARY

S	–	3	10	17	24	31
M	–	4	11	18	25	X
T	–	5	12	19	26	X
W	–	6	13	20	27	X
T	–	7	14	21	28	X
F	1	8	15	22	29	X
S	2	9	16	23	30	X

FEBRUARY

S	–	7	14	21	28	
M	1	8	15	22	29	
T	2	9	16	23	X	
W	3	10	17	24	X	
T	4	11	18	25	X	
F	5	12	19	26	X	
S	6	13	20	27	X	

MARCH

S	–	6	13	20	27	
M	–	7	14	21	28	
T	1	8	15	22	29	
W	2	9	16	23	30	
T	3	10	17	24	31	
F	4	11	18	25	X	
S	5	12	19	26	X	

APRIL

S	–	3	10	17	24	
M	–	4	11	18	25	
T	–	5	12	19	26	
W	–	6	13	20	27	
T	–	7	14	21	28	
F	1	8	15	22	29	
S	2	9	16	23	30	

MAY

S	1	8	15	22	29	
M	2	9	16	23	30	
T	3	10	17	24	31	
W	4	11	18	25	X	
T	5	12	19	26	X	
F	6	13	20	27	X	
S	7	14	21	28	X	

JUNE

S	–	5	12	19	26	
M	–	6	13	20	27	
T	–	7	14	21	28	
W	1	8	15	22	29	
T	2	9	16	23	30	
F	3	10	17	24	X	
S	4	11	18	25	X	

JULY

S	–	3	10	17	24	31
M	–	4	11	18	25	X
T	–	5	12	19	26	X
W	–	6	13	20	27	X
T	–	7	14	21	28	X
F	1	8	15	22	29	X
S	2	9	16	23	30	X

AUGUST

S	–	7	14	21	28	
M	1	8	15	22	29	
T	2	9	16	23	30	
W	3	10	17	24	31	
T	4	11	18	25	X	
F	5	12	19	26	X	
S	6	13	20	27	X	

SEPTEMBER

S	–	4	11	18	25	
M	–	5	12	19	26	
T	–	6	13	20	27	
W	–	7	14	21	28	
T	1	8	15	22	29	
F	2	9	16	23	30	
S	3	10	17	24	X	

OCTOBER

S	–	2	9	16	23	30
M	–	3	10	17	24	31
T	–	4	11	18	25	X
W	–	5	12	19	26	X
T	–	6	13	20	27	X
F	–	7	14	21	28	X
S	1	8	15	22	29	X

NOVEMBER

S	–	6	13	20	27	
M	–	7	14	21	28	
T	1	8	15	22	29	
W	2	9	16	23	30	
T	3	10	17	24	X	
F	4	11	18	25	X	
S	5	12	19	26	X	

DECEMBER

S	–	4	11	18	25	
M	–	5	12	19	26	
T	–	6	13	20	27	
W	–	7	14	21	28	
T	1	8	15	22	29	
F	2	9	16	23	30	
S	3	10	17	24	31	

1893

JANUARY

S	1	8	15	22	29	
M	2	9	16	23	30	
T	3	10	17	24	31	
W	4	11	18	25	X	
T	5	12	19	26	X	
F	6	13	20	27	X	
S	7	14	21	28	X	

FEBRUARY

S	–	5	12	19	26	
M	–	6	13	20	27	
T	–	7	14	21	28	
W	1	8	15	22	X	
T	2	9	16	23	X	
F	3	10	17	24	X	
S	4	11	18	25	X	

MARCH

S	–	5	12	19	26	
M	–	6	13	20	27	
T	–	7	14	21	28	
W	1	8	15	22	29	
T	2	9	16	23	30	
F	3	10	17	24	31	
S	4	11	18	25	X	

APRIL

S	–	2	9	16	23	30
M	–	3	10	17	24	X
T	–	4	11	18	25	X
W	–	5	12	19	26	X
T	–	6	13	20	27	X
F	–	7	14	21	28	X
S	1	8	15	22	29	X

M40U

Annual Catalogue

—of—

Wesleyan University.

1892-93.

MIDDLETOWN, CONN.:
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1892–93.

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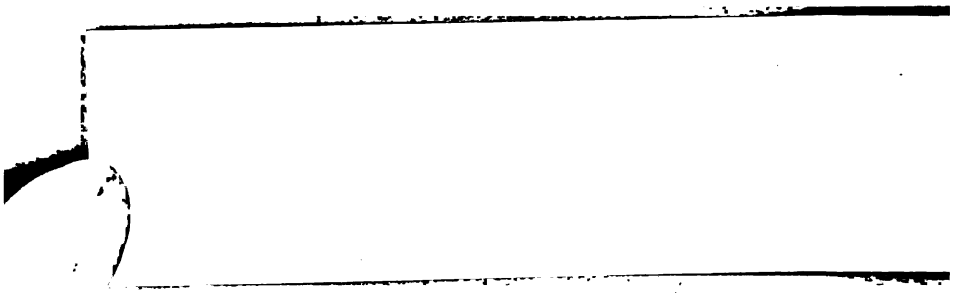

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1892–93.

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Leon Irving Wood,	*Waterbury.*	Ψ. Υ. *House.*

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
§ Julian Aznar,	*Merida, Mexico.*	*25 College Place.*
James Gordon Baldwin,	*Middletown.*	*41 Broad St.*
Ernest Bawden,	*Lykens, Pa.*	17 N. C.
Charles Augustus Bidwell,	*Middletown.*	*171 Broad St.*
Benjamin Robert Briggs,	*Rochester, N. Y.*	Δ. K. E. *House.*
Ernest Charles Carpenter,	*Bridgewater Corners, Vt.*	*88 Wyllys Ave.*
§ Charles Henry Colt,	*Winsted.*	A. Δ. Φ. *House.*
§ Mary Eva Cramer,	*Portland.*	*274 High St.*
§ William Butler Davis,	*Middletown.*	*182 Washington St.*
Charles Wesley Delano,	*Worcester, Mass.*	A. Δ. Φ. *House.*
John Payson Drake,	*Bristol, N. H.*	12 N. C.
Abraham Howry Espenshade,	*Gordonville, Pa.*	X. Ψ. *Lodge.*
† Willie Merrill Esten,	*Glendale, R. I.*	*66 Wyllys Ave.*
William Wright Fisher,	*Drawbridge, Del.*	X. Ψ. *Lodge.*
Robert Moses French,	*Kingston, N. H.*	X. Ψ. *Lodge.*
Fredric Worthen Frost,	*Newport, N. H.*	*306 William St.*
§ Alice Cora Fuller,	*Fitchburg, Mass.*	*274 High St.*
Arthur Mathews Gates,	*Niantic.*	*88 Wyllys Ave.*

NAMES.	RESIDENCES.	ROOMS.
Lewis Edward Gordon,	*Hazardville.*	Ψ. Υ. *House.*
Roscoe Allan Grant,	*Montpelier, Vt.*	*296 William St.*
§ Florence Alberta Graves,	*Clinton, Ia.*	*17 Cross St.*
William Flowers Groves,	*Wilmington, Del.*	*296 William St.*
† Robert Elmer Hendershot,	*Middleville, N. J.*	*246 High St.*
† Rupert Henry Hopkins,	*Miller's Place, N. Y.*	38 N. C.
Arthur Leolin Howe,	*Gardner, Mass.*	12 N. C.
Charles Chase Hurlbut,	*Plainfield, N. J.*	Ψ. Υ. *House.*
Theodore Horace Jameson,	*Rochester, N. Y.*	Ψ. Υ. *House.*
§ George Oglevie Jarvis,	*Portland.*	35 N. C.
Wilbur Clark Johnson,	*Winthrop, Mass.*	Α. Δ. Φ. *House.*
Charles Hubbard Judd,	*Middletown.*	*308 William St.*
Frederic Lawrence Knowles,	*Tilton, N. H.*	*306 William St.*
§ Willis Thomas Lee,	*Brooklyn, Pa.*	*58 Wyllys Ave.*
Lewis Marshall Lounsbury,	*Bridgeport.*	*51 Wyllys Ave.*
Ralph Fernald Lowe,	*York, Me.*	32 N. C.
Victor Nathan Lucia,	*Northampton, Mass.*	Β. Θ. Π. *House.*
George Carlton McDonald,	*Glover, Vt.*	*66 Wyllys Ave.*
Susie Jane Mantle,	*Portland, Me.*	*274 High St.*
Irving Avard Meeker,	*Glen Ridge, N. J.*	*25 College Place.*
Will M. Newton,	*Barnard, Vt.*	Ψ. Υ. *House.*
Edwin Bryant Nichols,	*Hartford.*	Β. Θ. Π. *House.*
† Lizzie Chapin Rice,	*Middletown.*	*342 Main St.*
Frederick Henry Sawyer,	*Thomaston.*	Δ. Κ. Ε. *House.*
Wilbur John Sawyer,	*Thomaston.*	Δ. Κ. Ε. *House.*
Alfred Jacob Saxe,	*Walden, N. Y.*	17 N. C.
William Hamilton Smith,	*West Fairlee, Vt.*	C O. H.
William Leonard Snow,	*Brockton, Mass.*	*58 Wyllys Ave.*
Edgar Charles Snyder,	*Slatington, Pa.*	Α. Δ. Φ. *House.*
§ John Daniel Stark,	*Pittston, Pa.*	Β. Θ. Π. *House.*
Edward Lee Steele,	*Hartford.*	Β. Θ. Π. *House.*
§ William Hill Taylor,	*Cambridge, O.*	*238 High St.*
John Angus Thompson,	*New York, N. Y.*	*5 Bailey Ave.*
Henry Archelaus Tirrell,	*Norwich.*	31 N. C.
Edwin Cuyler Treat,	*New York, N. Y.*	*238 High St.*
Harry Reed Van Deusen,	*Mehoopany, Pa.*	Δ. Κ. Ε. *House.*
Ralph Herbert White,	*Philadelphia, Pa.*	Β. Θ. Π. *House.*
Claude Lucas Wilson,	*Middletown.*	*5 Bailey Ave.*

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Samuel Le Roy Ackerly,	*Northport, N. Y.*	*197 High St.*
§ Lula Giralda Adams,	*Biddeford, Me.*	*66 Wyllys Ave.*
John Abraham Anderson,	*Brooklyn, N. Y.*	*213 College St.*
James Lincoln Bahret,	*Poughkeepsie, N. Y.*	X. Ψ. *Lodge.*
§ Eldred Lewis Manley Barnes,	*Waitsfield, Vt.*	*66 Wyllys Ave.*
Le Roy Mason Beeman,	*Moriah Centre, N. Y.*	Ψ. Υ. *House.*
James Hough Bunce, Jr.,	*Middletown.*	*107 High St.*
§ Caroline Chalker Clark,	*Wethersfield.*	*274 High St.*
Clifford Pease Clark,	*Ludlow, Mass.*	Ψ. Υ. *House.*
§ Walter Eli Clark,	*Chaplin.*	X. Ψ. *Lodge.*
Edward Francis Coffin,	*Worcester, Mass.*	B. Θ. Π. *House.*
Arthur Beebe Darling,	*Mexico, N. Y.*	Ψ. Υ. *House.*
Stephen Brooks Davis, Jr.,	*Middletown.*	*252 College St.*
Frank Willis Doane,	*Middletown.*	*31 Crescent St.*
Frank Merritt Dyer,	*Binghamton, N. Y.*	Δ. K. E. *House.*
James Pendleton Erskine,	*Searsport, Me.*	16 N. C.
Edward Justus Gale,	*Barre, Vt.*	X. Ψ. *Lodge.*
Frank Bradley Garfield,	*East Templeton, Mass.*	A. Δ. Φ. *House.*
Norman Everett Gilbert,	*Middletown.*	11 O. H.
Andrew Buchanan White Gillies,	*Rochester, N. Y.*	*58 Wyllys Ave.*
William Elithan Greene,	*Houlton, Me.*	*88 Wyllys Ave.*
§ Fred Willis Guibord,	*Plattsburgh, N. Y.*	*58 Wyllys Ave.*
§ Thomas Jose Hambley,	*Niantic.*	15 N. C.
§ Henry Ingraham Harriman,	*Brooklyn, N. Y.*	*58 Wyllys Ave.*
William Henry Hayes,	*New York, N. Y.*	13 N. C.
Charles Otis Judkins,	*Bristol, N. H.*	*51 Wyllys Ave.*
§ Franklin Thomas Kurt,	*Middletown.*	X. Ψ. *Lodge.*
George Nelson Lapham,	*Kent's Hill, Me.*	X. Ψ. *Lodge.*
Alexander Henry Leo,	*Philadelphia, Pa.*	*242 High St.*
John Stryker Lull,	*Woodlawn, N. Y.*	C O. H.
Hiram Emery Miller,	*West Winterport, Me.*	14 N. C.
Alvin Jay Neff,	*Middletown.*	B. Θ. Π. *House.*
Warren Roberts Neff,	*Passaic, N. J.*	A. Δ. Φ. *House.*
Samuel Bowman Opdyke,	*Easton, Pa.*	A. Δ. Φ. *House.*
William Willet Peck,	*Port Jervis, N. Y.*	A. Δ. Φ. *House.*

NAMES.	RESIDENCES.	ROOMS.
Daniel Hays Piper,	*Middletown.*	2 N. C.
§ Arthur Cleveland Pomeroy,	*Brooklyn, N. Y.*	Ψ. Υ. *House.*
§ George Hale Ryder,	*Hartford.*	B. Θ. Π. *House.*
Arthur Henry Scudder,	*Hunter, N. Y.*	*15 Pearl St.*
Colbert Searles,	*Livermore Falls, Me.*	*295 William St.*
John Foster Searles,	*Brooklyn, N. Y.*	*213 College St.*
Warren French Sheldon,	*Forestville.*	A. Δ. Φ. *House.*
Ernest Ketcham Smith,	*Marlboro, Mass.*	A. Δ. Φ. *House.*
George Benton Smith,	*New Britain.*	X. Ψ. *Lodge.*
Robert Newhall Smith,	*Ocean Grove, N. J.*	*46 Wyllys Ave.*
Verona J. Smith,	*Gloversville, N. Y.*	Ψ. Υ. *House.*
† Lizzie Cocks Stocking,	*Simsbury.*	*17 Cross St.*
Howard Anderson Sutton,	*Haverford, Pa.*	*46 Wyllys Ave.*
Henry Allen Thayer,	*East Blackstone, Mass.*	Δ. K. E. *House.*
§ Abby May Thompson,	*Rumford, Me.*	*198 College St.*
Edward Lee Thorndike,	*Springfield, Mass.*	*25 College Place.*
§ Sarah Bertha Tucker,	*Durham.*	*169 Church St.*
Joseph King Van Denburg,	*Fort Edward, N. Y.*	Ψ. Υ. *House.*
Merle Bowman Waltz,	*Quincy, Ill.*	*51 Wyllys Ave.*
John Henry Ward,	*Coeymans Junction, N. Y.*	B. Θ. Π. *House.*
§ Harry Adelbert Watts,	*Portsmouth, N. H.*	Δ. K. E. *House.*
† Frances Louise Weeks,	*Middletown.*	*297 College St.*
† Maud Eloise Wells,	*Hartford.*	*274 High St.*
William Seaver Woods,	*Corning, N. Y.*	*58 Wyllys Ave.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
† William Wright Anderson,	*Wellsville, N. Y.*	27 N. C.
§ Harry Arthur Batchelder,	*Plainfield, Vt.*	62 N. C.
Cornelius Roach Berrien,	*Montclair, N. J.*	*31 College Place.*
Albert Francis Blakeslee,	*East Greenwich, R. I.*	*31 College Place.*
Lucius Moody Bristol,	*Binghamton, N. Y.*	50 N. C.
§ Edgar Eugene Brooks,	*New Milford, Pa.*	*306 William St.*
Francis Cobb Brown,	*Huntington, N. Y.*	*109 Broad St.*

NAMES.	RESIDENCES.	ROOMS.
William Harry Burgwin,	*Fabius, N. Y.*	44 N. C.
§ James Harvey Burnes,	*South Norwalk.*	30 N. C.
§ Stella Webster Carroll,	*New Britain.*	*274 High St.*
§ Alfred Burnette Case,	*Jamestown, N. Y.*	47 N. C.
William Barrett Cass,	*Saratoga Springs, N. Y.*	64 N. C.
Davison Augustus Chandler,	*Paterson, N. J.*	34 N. C.
Jason Franklin Chase,	*Chelsea, Mass.*	*256 William St.*
§ Isabella Jamieson Church,	*Middletown.*	*South Farms.*
Henry Loren Clements,	*Moscow, Pa.*	*178 Church St.*
§ William Orrin Cobb,	*Gardiner, Me.*	48 N. C.
§ James Brooks Comins,	*Stafford Springs.*	54 N. C.
§ Melrose Delmont Davies,	*Winthrop, Me.*	29 N. C.
Jeanie Louise DeForest,	*Huntington, N. Y.*	*Pameacha.*
William Denison,	*Middletown.*	*68 Pearl St.*
Joseph Albertson Dilks, Jr.,	*Pemberton, N. J.*	30 N. C.
Arthur Urbane Dilley,	*Wilkes Barre, Pa.*	*238 High St.*
Adelbert Abel Estabrook,	*West Dover, Vt.*	10 N. C.
§ Fred Warren Fifield,	*Deer Isle, Me.*	29 N. C.
§ May Stockbridge Finney,	*Hartford.*	*274 High St.*
Alexander Robert Fordyce, Jr.,	*Newark, N. J.*	*197 High St.*
§ Hart Silas Fuller,	*Ellenville, N. Y.*	*256 High St.*
§ James Henry Fuller,	*Lenox, Pa.*	*256 High St.*
§ Arthur Herbert Gavitte,	*Springville, Pa.*	57 N. C.
† Mary Louise Gleason,	*Middletown.*	*173 High St.*
§ Harry Weston Goodspeed,	*Randolph, Me.*	19 N. C.
James Herbert Guy,	*Middletown.*	*South Farms.*
§ Charles Wesley Hale,	*Rockville.*	*299 College St.*
† Albert Jabesh Harris,	*Buffalo, N. Y.*	27 N. C.
Olin Wesley Hill,	*New Haven.*	58 N. C.
§ Lillian Grey Inglis,	*Middletown.*	*176 Main St.*
§ Frank Goodwin Jester,	*Milford, Del.*	54 N. C.
Harold Ridgeway Johnston,	*Brooklyn, N. Y.*	60 N. C.
† Anna Josephine Kellogg,	*Meriden.*	*164 College St.*
Edward Albert Lane,	*Wilmcote, England.*	*256 High St.*
Charles Samuel Leavenworth,	*New Haven.*	*31 College Place.*
Irville Charles Le Compte,	*Binghamton, N. Y.*	*308 William St.*
Delmar J. Lindley,	*Brooklyn, Pa.*	*58 Wyllys Ave.*
Walter Thomas Lindsay,	*Huntington, N. Y.*	*109 Broad St.*

NAMES.	RESIDENCES.	ROOMS.
§ Charles Eugene Little, Jr.,	*Jersey City, N. J.*	58 N. C.
Frank Thaddeus Love,	*Pittsfield, Mass.*	49 N. C.
Mary Annie McKay,	*Camden, Me.*	*274 High St.*
† Irving Edward Manchester,	*West Winsted.*	34 N. C.
Thomas Bowie Miller,	*New Haven.*	44 N. C.
Robert Augustus Montgomery,	*Old Bridge, N. J.*	43 N. C.
George Miles Moody,	*Mechanicsville, N. Y.*	64 N. C.
William Henry Seward Morey,	*Baldwinsville, N. Y.*	62 N. C.
† Glenn Watson Morgan,	*Winona, Minn.*	*256 William St.*
Ellis Franklin Nightingale,	*Middletown.*	*66 Wyllys Ave.*
Louis Arthur Norris,	*Montpelier, Vt.*	47 N. C.
† George Wingate Norton,	*Farmington, Me.*	21 N. C.
Albert Eugene Osborne,	*Lathrop, Pa.*	*58 Wyllys Ave.*
§ Glenn Charles Page,	*New Milford, Pa.*	*306 William St.*
§ Frederick Livingston Parker,	*Westfield, Mass.*	18 O. H.
Carl Robinson Peck,	*Brooklyn, N. Y.*	*260 William St.*
Fannie Bishop Petty,	*Centre Moriches, N. Y.*	*274 High St.*
Joseph Adams Puffer,	*Harrington, Me.*	48 N. C.
James Pullman,	*New Britain.*	50 N. C.
Ernest Scott Quimby,	*Exeter, N. H.*	43 N. C.
Richard Reed Reynolds,	*Southington.*	49 N. C.
§ Julia Robinson,	*Hartford.*	*164 College St.*
§ Elizabeth Halsey Rogers,	*Sagaponack, N. Y.*	*274 High St.*
§ Gustavus Ulysses Sanford,	*Gibson, Pa.*	*178 Church St.*
† William Eugene Schimpff,	*Scranton, Pa.*	33 N. C.
Charles Elmer Scudder,	*Hunter, N. Y.*	*15 Pearl St.*
§ Lucy Osborne Searle,	*Niles, Mich.*	*274 High St.*
Edmund David Searls,	*Chelsea, Me.*	*295 William St.*
§ Edgar Benton Singer,	*Mountain Top, Pa.*	*256 High St.*
† Freeman Harris Smith,	*Greenwich.*	*299 College St.*
Whitman Philo Stanley,	*West Berkshire, Vt.*	62 N. C.
† Charles Wesley Stewart,	*Herrickville, Pa.*	57 N. C.
Vernon Benjamin Swett,	*South Paris, Me.*	19 N. C.
Joseph Willard Thomas,	*North Gorham, Me.*	21 N. C.
George Dallas Thompson,	*Manasquan, N. J.*	B. Θ. Π. *House.*
† George Leavitt Tirrell,	*Norwich.*	31 N. C.
William Braman Tower,	*Worcester, Mass.*	17 O. H.
Henry Deiderich Trinkaus,	*Bridgeport.*	33 N. C.

NAMES.	RESIDENCES.	ROOMS.
§ Eugene Henry Tucker,	*New Hartford.*	*130 High St.*
Alice Elinor Walker,	*Salisburypoint, Mass.*	*274 High St.*
Wilbur Abbott Welch,	*New York, N. Y.*	*Y. T. House.*
Renwick White,	*Highlands, N. C.*	*94 Pearl St.*
§ Margaret Neff Williams,	*New Britain.*	*274 High St.*
Arthur Harmon Winn,	*Albany, N. Y.*	*31 College Place.*

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Jessie Worthen Hall Ames,	*Cromwell.*	*274 High St.*
Francis Sawyer Douglass,	*Plymouth, Mass.*	*31 College Place.*
Christine Kellogg Glover,	*Middletown.*	*306 William St.*
Mary Frances Hibbard,	*New Britain.*	*274 High St.*
Susie Southmayd Hubbell,	*Buffalo, N. Y.*	*276 Washington St.*
Randolph Campbell Hurd,	*Newburyport, Mass.*	*22 Wyllys Ave.*
Frederick Kniffin,	*Catskill, N. Y.*	32 N. C.

SUMMARY.

GRADUATE STUDENTS,	14
SENIORS,	46
JUNIORS,	56
SOPHOMORES,	59
FRESHMEN,	89
SPECIAL STUDENTS,	7
TOTAL,	271

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first two years. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above courses, nearly all of the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.

TERMS OF ADMISSION.

CLASSICAL COURSE.

Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN.—1. Latin Grammar, including Prosody.

2. Cæsar,—Gallic War, books I.–IV.

3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.

4. Vergil,—Eclogues; Æneid, books I.–VI.

5. Ovid,—translation at sight into English of passages of average difficulty from the Metamorphoses.

6. Translation at sight into English of passages of prose Latin of average difficulty.

7. Translation into Latin of simple English sentences and easy narrative passages based on the prose authors read.

With the passages set under headings 5, 6, and 7, a vocabulary of the less common words is supplied. Candidates are also allowed, at the option of the examiners, to substitute translation at sight for some of the passages set from the required authors.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *hack-hire*, *haphazard*, *boat-hook*; other consonants as in English.

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

GREEK.—1. Greek Grammar,—Hadley-Allen's, or Goodwin's.

2. Xenophon,—four books of the Anabasis.

3. Homer,—three books of the Iliad.

4. Translation at sight of one or more passages from Xenophon.

5. Translation of simple English sentences into Greek.

HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth.

3. Ancient Geography.

The amount of historical knowledge required for this examination may be obtained from the following books:—Allen's Short History of the Roman People, pp. 1–275; Myers' Ancient History, Part I., beginning with Section II. Tozer's Primer of Ancient Geography is recommended as the basis for instruction in Ancient Geography. Familiarity with map-drawing is also especially desirable.

MATHEMATICS.—1. Algebra, through Progressions, including the use of the Binomial Formula for positive integral exponents,—so much, for example, as is contained in Wentworth's Elements of Algebra, or in the first seven books of Newcomb's Algebra for Colleges.

2. Plane Geometry,—the first five books of Chauvenet's Geometry, or their equivalent.

ENGLISH.—1. Each candidate will be required to write a short English essay upon a subject announced at the time of the examination. This essay will be expected to show a general familiarity with the works mentioned below, and will be examined with especial attention to accuracy of grammar, spelling, and punctuation. In 1893, subjects for this essay will be taken from two or more of the following works, candidates being required, however, to be prepared on all of them:—Shakspere's Julius Cæsar and Twelfth Night, Scott's Marmion, Longfellow's Courtship of Miles Standish, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Ivanhoe, Dickens' David Copperfield.

In 1894, they will be taken from the following:—Shakspere's Julius Cæsar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens' David Copperfield.

In 1895, they will be taken from the following:—Shakspere's Merchant of Venice and Twelfth Night, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, the Sir Roger de Coverley Papers in the Spectator, Macaulay's Essay on Milton and Essay on Addison, Webster's first Bunker Hill Oration, Irving's Sketch Book, Scott's Abbot.

In 1896, they will be taken from the following:–Shakspere's Merchant of Venice and Midsummer Night's Dream, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, Macaulay's Essay on Milton, Webster's First Bunker Hill Oration, DeFoe's History of the Plague in London, Irving's Tales of a Traveller, Scott's Woodstock, George Eliot's Silas Marner.

2. Each candidate will be required to criticise specimens of English given him at the time of the examination.

Two hours will be allowed for the entire examination in English.

Teachers of Greek and Latin in preparatory schools are urged to insist upon the use of simple and idiomatic English in translation.

LATIN-SCIENTIFIC COURSE.

Candidates for the Latin-Scientific Course will be examined in the following books and subjects:—

LATIN.—Same requirements as for the Classical Course.

HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek History and Geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH OR GERMAN.—Candidates will be examined in French or German, as they may elect. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions.

SCIENTIFIC COURSE.

Candidates for the Scientific Course have the option of the three following series of requirements:—

A.

MATHEMATICS.—Same requirements as for the Classical Course, with the addition of the following subjects:—

1. Solid Geometry —the last four books of Chauvenet's Geometry, or their equivalent.

2. Plane and Spherical Trigonometry, with the use of Logarithmic and Trigonometric Tables.

3. Analytical Geometry, including the straight line, the circle, and the elementary properties of the conic sections.

ENGLISH.—Same requirements as for the Classical Course.

MODERN LANGUAGES.—French or German, at the option of the candidate. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions. The work is intended to be substantially equivalent to Course I. in French or German, as outlined below, page 33.

B.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

MODERN LANGUAGES.—The equivalent of Course I. in both French and German, and Course II. in either French or German, at the option of the candidate.

C.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

MODERN LANGUAGES.—Same as in Course A.

NATURAL SCIENCE.—Any two out of the three following courses, at the option of the candidate:—

I. *Botany and Physical Geography.*—1. In Botany, the candidate must pass an examination in Gray's Lessons in Botany, and must show ability to dissect any flowers of no extraordinary difficulty, and to write descriptions of them. He must also present an herbarium of not less than fifty species, collected and classified by himself.

2. In Physical Geography, such a knowledge of the subject will be required as can be gained from the study of Geikie's Elementary Lessons.

II. *Chemistry.*—1. Such a knowledge of the subject will be required as can be gained from Eliot and Storer's Manual of Chemistry, pp. 1–143.

2. The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

III. *Physics.*—1. Such a knowledge of the subject will be required as can be gained from Gage's Introduction to Physical Science, or Avery's First Principles of Natural Philosophy.

2. The candidate must also have performed a series of at least thirty experiments involving careful measurements, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. The experiments may be selected from Worthington's Physical Laboratory Practice, or from any other elementary laboratory manual.

After 1893, candidates electing Course A or Course B will be required to take, in addition, one of the three courses in Natural Science specified above, and those electing Course C will be required to take all three of the courses in Natural Science.

SPECIAL COURSES.

Special Students, not candidates for a degree, may be admitted, upon passing such examination as the Faculty shall in each case prescribe.

No one can be admitted to the Freshman Class under the age of fifteen years, or to an advanced standing without a corresponding increase of age.

All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

A student who has accomplished half or more of the preparatory course may be examined on that part, and receive credit therefor. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

The regular examination for admission is held on the Thursday and Friday of Commencement Week. All candidates must be present at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term.

Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1st. The time of these examinations will be Thursday and Friday of Commencement Week. But, if no applications are received before June 1st, these examinations will not be held.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

LATIN.

PROFESSOR MERRILL; MR. NICOLSON.

I. LIVY,—Books 21 and 22, with parallel readings from Polybius in translation. *First half-year.* MR. NICOLSON.

PLAUTUS,—Trinummus; TERENCE,—Phormio; CICERO,—De Senectute, De Amicitia. *Second half-year.* MR. NICOLSON.

Exercises in sight translation and prose composition throughout the year.

Section I., *Mon., Tu., Th., Fri., at 9;* Section II., *Mon., Tu., Th., Fri., at 12.*

Course I. is required of Classical and Latin-Scientific Freshmen.

II. PLAUTUS,—Trinummus; TERENCE,—Andria. *Mon., Th., at 11 (1st half-year).* MR. NICOLSON.

CICERO,—Selected Letters. *Mon., Th., at 11 (2nd half-year).* PROFESSOR MERRILL.

After the present year, Horace will be read in this course.

III. CICERO,—Selected Letters. *Mon., Th., at 10 (1st half-year).* PROFESSOR MERRILL.

TACITUS,—Minor Works. *Mon., Th., at 10 (2nd half-year).* MR. NICOLSON.

Courses II. and III. are elective for those who have taken Course I., and prospective candidates for preliminary honors in Classics are advised to elect both these courses in the Sophomore year.

IV. TIBULLUS AND PROPERTIUS,—Selected Elegies. *Mon., Fri., at 3 (1st half-year).* MR. NICOLSON.

PLINY THE YOUNGER,—Selected Letters. *Mon., Fri., at 3 (2nd half-year).* PROFESSOR MERRILL.

V. TACITUS,—Annals,—selections. *Twice a week during the first half-year.* PROFESSOR MERRILL.

CATULLUS. *Twice a week during the second half-year.* PROFESSOR MERRILL.

VI. LUCRETIUS,—Books 1 and 3, and selections from Books 2 and 5. *Twice a week during the first half-year.* MR. NICOLSON.

OVID,—Selections. *Twice a week during the second half-year.* MR. NICOLSON.

Courses IV.-VI. are elective for those who have taken Courses I. and either II. or III.

Course IV. alternates in successive years with Courses V. and VI. Course IV. is given the present year.

VII. LATIN PROSE COMPOSITION. A course in advanced work, with practical exercises and demonstrations, designed to illustrate the theory of Latin rhetoric. *Wed., at 2.* MR. NICOLSON.

Course VII. is elective for those who have taken Course I., and prospective candidates for preliminary honors in Classics are advised to elect it in the Sophomore year.

VIII. LATIN PROSE COMPOSITION. A course in continuation of Course VII., involving original composition in Latin on historical, descriptive, and argumentative themes. *Tu., at 10.* PROFESSOR MERRILL.

Course VIII. is elective for those who have taken Course VII. It will probably be omitted in 1893–94.

IX. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Th., at 4.* PROFESSOR MERRILL.

X. ROMAN PRIVATE AND SOCIAL INSTITUTIONS. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Once a week.* PROFESSOR MERRILL.

Courses IX. and X. are elective for all students. They are given in alternate years, the former being given this year.

XI. During the second half of alternate years Professor Merrill conducts a series of ten conferences of an hour each on the History and Methods of Classical Study and Teaching. These conferences are open, on application to the leader, to all persons interested, but are designed especially for those students in the advanced courses who are intending to teach Latin.

Course XI. is given the present year.

XII. LATIN SEMINARY. This course of instruction and practice in methods of advanced work is intended primarily for graduate students, but Seniors who are candidates for special honors in Latin at graduation may also be admitted to it. The work for the present year

consists of an introduction to the general subject of Latin Epigraphy, with the special study of certain inscriptions illustrating the constitution and history of the Empire under Augustus. The subject for the year 1893–94 will be the life and works of Catullus. *Wed., 8–10; Fri., 4–6.* PROFESSOR MERRILL.

For the successful prosecution of Courses II.–VI., and IX. and X., an ability to read German prose on philological subjects is especially desirable, and for Course XII. it is necessary. Students, therefore, who look forward to the study of Latin beyond the required course, and have on admission to college no acquaintance with German, should elect German in the Freshman year.

GREEK.

PROFESSOR VAN BENSCHOTEN; DR. GOODWIN.

I. HERODOTUS,—special attention given to Morphology and the derivation and composition of words. Greek History. *First term.* DR. GOODWIN.

THUCYDIDES,—Syntax, with Composition. *Second term.* DR. GOODWIN.

HOMER,—Prosody; Studies in Greek language and life in Homeric literature. *Third term.* DR. GOODWIN.

Throughout the year considerable time is given to sight-reading.

Section I., *Mon., Tu., Wed., Fri., at 11;* Section II., *Mon., Tu., Wed., Fri., at 10.*

Course I. is required of Classical Freshmen.

II. AESCHINES AND DEMOSTHENES,—Orations on the Crown. Lectures on the Public Life of the Greeks. A course of collateral reading is required, covering Butcher's Demosthenes, Jebb's Primer of Greek Literature, and portions of Jebb's Greek Orators. *First term.* PROFESSOR VAN BENSCHOTEN.

PLATO,—Euthyphro, Apologia, Crito, Phædo. Lectures on Greek Philosophy. The collateral reading includes introductory chapters of Grote's Plato, and Zeller's Outlines of Greek Philosophy. *Second term.* PROFESSOR VAN BENSCHOTEN.

AESCHYLUS AND SOPHOCLES,—Prometheus Bound; Antigone. Lectures on Greek Drama, with illustrations. The collateral reading includes Jebb's Primer of Greek Literature, portions of Jevons' History of Greek Literature and Mahaffey's History of Greek Literature, and Haigh's Attic Theatre. *Third term.* PROFESSOR VAN BENSCHOTEN.

Section I., *Wed., Fri., at 9;* Section II., *Wed., Fri., at 3.*

Course II. is elective for those who have taken Course I.

III. TRANSLATIONS FROM GREEK AUTHORS. *Tu., at 8.* PROFESSOR VAN BENSCHOTEN.

Course III. is elective for those who have taken Course I.

IV. GREEK COMEDY,—The Frogs and the Acharnians of Aristophanes. GREEK TRAGEDY,—Aeschylus, Sophocles, Euripides. *Mon., Wed., Th., at 8.* PROFESSOR VAN BENSCHOTEN.

V. GREEK PHILOSOPHY,—Plato, Aristotle, and Xenophon; The Clouds of Aristophanes. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

In connection with Courses IV. and V.. fortnightly meetings are held for special studies in the Greek language and literature.

These courses are intended for those who desire a wider acquaintance with Greek literature and a more technical knowledge of grammar and the details of interpretation.

Courses IV. and V. are elective for those who have taken Courses I. and II.

Courses IV. and V. are given in alternate years. Course IV. is given the present year.

VI. BIBLICAL GREEK,—The Gospels. *Twice a week.* PROFESSOR VAN BENSCHOTEN.

Course VI. is given in alternate years. It is omitted the present year.

VII. LYRIC POETRY,—Buchholz's Anthologie; Pindar. *Mon., at 10; Wed., Th., at 11. First term.* PROFESSOR VAN BENSCHOTEN.

LUCIAN. *Mon., at 10; Wed., Th., at 11. Second term.* PROFESSOR VAN BENSCHOTEN.

NEO-HELLENIC,—with collateral work on the geography and topography of Greece, on epigraphy, and on Greek art and life. *Mon., at 10; Wed., Th., at 11. Third term.* PROFESSOR VAN BENSCHOTEN.

Course VII. is elective for those who have taken either Course IV. or Course V.

HEBREW.

PROFESSOR PRENTICE.

The class begins with Davidson's Introductory Hebrew Grammar. Some ten or twelve chapters of easy Hebrew are read first, such as the story of Rebecca, the finding of Joseph, the life of Samson, David

and Goliah, or Elijah the Tishbite. The class next reads several chapters in Genesis. Mitchell's Gesenius' Hebrew Grammar is studied with especial reference to the syntax. From a dozen to twenty psalms are then read. Special topics are assigned to different members of the class to examine, and their reports are read before the class. The reference books required are the Hebrew Bible of Hahn, or Stier and Theile, and the lexicon of Gesenius or Fuerst. *Mon., Tu., Wed., Th., Fri., at 10.*

This course is elective for Juniors.

GERMAN.

PROFESSOR PRENTICE.

I. Whitney's German Grammar, taking both series of lessons outlined by the author. Whitney's German Reader. Lessing's Minna von Barnhelm. *Tu., Wed., Fri., at 8.*

II. Schiller's Wilhelm Tell, Heine's Harzreise. Systematic sight-reading is practiced, Stern's Select Comedies or other books of like difficulty being used. Every third exercise is conversational, the text-book being either Bronson's Colloquial Drill, or Meissner's German Conversation. *Mon., Fri., at 3; Sat., at 8.*

III. Schiller's Wallenstein Trilogy, and Nathan der Weise. A large selection from Schiller's lyrics is assigned the class for collateral reading. *Mon., Th., at 11.*

Course III. is given in alternate years. It will be omitted in 1893-94.

Rules concerning the election of courses in German are given below, at the end of the report of the Department of Romance Languages.

Students in the Classical and Latin-Scientific Courses, who look forward to the study of Latin or Greek beyond the required courses, and have no previous acquaintance with German, should elect German in the Freshman year.

ROMANCE LANGUAGES.

ASSOCIATE PROFESSOR KUHNS.

I. FRENCH. Whitney's Practical French Grammar, Part I. De Maistre, — La Jeune Sibérienne, Le Lépreux de la Cité d'Aoste; Erckmann-Chatrian,—Madame Thérèse; Victor Hugo,—La Chute, Bug Jargal; Lamartine,—Jeanne d'Arc; Jules Verne,—Le Tour du

monde en 80 jours. Part of the above books are read at sight. There is also personal drill in pronunciation. *Tu., Wed., Th., at 3.*

II. FRENCH. Roulier's Second Book of French Composition. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. Books read this year are Mérimée,—Colomba; Sandeau,—Mlle. de la Seiglière; Corneille,—Polyeucte; Racine,—Andromaque; Molière,—Le Bourgeois Gentilhomme; Halèvy,—L'Abbé Constantin; Daudet,—Tartarin de Tarascon. *Mon., Th., at 8.*

III. FRENCH. French conversation. Chardenal's Practical Exercises in French Conversation, Anecdotes Nouvelles, Les Fables de la Fontaine, Rougemont's La France. During the last half-year informal lectures are given in French. *Wed., at 8.*

Course III. is elective for Sophomores.

IV. FRENCH. French literature in the seventeenth and nineteenth centuries. The following books are read, but not translated—questions on the subject matter being put and answered in French:—Corneille,—Le Cid; Racine,—Phèdre; Molière,—Le Tartuffe; La Fontaine, first four books of Fables; Boileau,—L'Art Poétique; Chateaubriand,—Atala; Lamartine,—selections; Victor Hugo,—Hernani, and lyrical poetry; Musset,—comedies, stories, and poetry; Balzac,—Eugénie Grandet.

There is at each recitation translation of English into French. Further, frequent lectures are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries.

In addition, each member of the class must, for each half-year, select one of the following courses of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of the author selected.

First half-year:—

1. Corneille,—Horace, Polyeucte, Le Menteur, Rodogune.
2. Racine,—Athalie, Les Plaideurs, Bérénice, Mithridate.
3. Racine,—Bajazet, Iphigénie, Britannicus, Esther; Sophocles,—Oedipus Tyrannus.
4. Molière,—Les Précieuses Ridicules, L'École des Femmes, Le Médecin malgré lui, L'Avare.
5. Molière,—Le Bourgeois Gentilhomme, Le Malade Imaginaire, George Dandin; Shakspere,—As You Like It.

6. La Fontaine,—first eight books of Fables; Goethe,—Reineke Fuchs.

7. Boileau,—Le Lutrin; Malherbe,—Poésies.

8. Voltaire,—Zaïre, Mérope, La Henriade.

9. Rousseau,—Le Contrat Social; Diderot,—Le Neveu de Rameau.

Second half-year:—

1. St. Pierre,—Paul et Virginie; Mme. de Stael,—L'Allemagne.

2. Chateaubriand,—René, Le dernier Abencerage, selections from Le Génie du Christianisme.

3. Lamartine,—Jocelyn.

4. Victor Hugo,—Dramas.

5. Victor Hugo,—Lyric and Epic Poetry.

6. Victor Hugo,—Novels.

7. Musset,—Selections.

8. Balzac,—Le Père Goriot, César Birotteau.

9. George Sand,—Jacques, La Mare au Diable, La petite Fadette. *Tu., Fri., at 11 (counting as three hours a week).*

V. OLD FRENCH. 1. Clédat's Morceaux Choisis des Auteurs Francais du Moyen Age; Clédat's Grammaire Élémentaire de la Vieille Langue Française. Exercises in Old French etymology, based on La Vie de Saint Alexis.

Each member of the class must select one of the following subjects for investigation and write a thesis on the results of his study:

1. Le Roman de la Rose, and its influence on Chaucer.

2. Aymeri de Narbonne and the Geste de Guillaume.

3. Chanson de Roland and the Geste du Roi. *Th., at 10 (counting as two hours a week).*

Course V. will not be given in 1893-94.

VI. LITERATURE OF THE RENAISSANCE. Darmesteter and Hatzfeld,—Le Seizième Siècle en France. Lectures and private readings. *Once (counting as twice) a week.*

Course VI. will be given in 1893-94.

VII. ITALIAN. Italian Principia, I. De Amicis,—Alberto, Cuore; Manzoni,—I promessi Sposi. In addition to the regular work by the class in translating modern prose, the instructor will translate and interpret to the class the whole of Dante's Divina Commedia, the last half hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rossetti's Shadow of Dante. *Tu., Fri., at 8.*

Course VII. is elective for those who have taken I. French.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Candidates for the Latin-Scientific and Scientific Courses are examined at entrance to test their ability to read at sight easy passages in French or German, as they may elect. Students in the Latin-Scientific Course are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to take the equivalent of Courses I. and II. in French, and I. and II. in German. Such of these courses as they have not pursued before entering college, they must take as speedily as possible after entering. Aside from these restrictions, each course in either language is elective for those who have previously taken the preceding course or courses in the same language, except that III. French may be elected in the same year with II. French.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's Primer of English Literature, with lectures. *Tu., Wed., at 11.*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspere's Hamlet; selections from Pope's Satires. *Fri., at 11.*

3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose either one of the courses in Winchester's Five Short Courses of Reading in English Literature. These courses may be briefly outlined as follows:—

(1.) 1559–1674. Marlowe's Faustus and Greene's Friar Bacon; Shakspere's Henry IV., As You Like It, Antony and Cleopatra, Winter's Tale, and ten sonnets; Bacon's Essays—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost (Book I.), Samson Agonistes.

(2.) 1660–1745. Dryden's Absalom and Achitophel; Addison's Essays—selections; Steele's Essays—selections; Swift's Tale of a Tub, Argument against Abolishing Christianity, Journal to Stella (I.–VII.).

Johnson's Lives of Dryden, Swift, Pope; Thackeray's Lectures on the English Humourists.

(3.) 1745–1789. Gray's Elegy in a Country Churchyard, Ode on a Distant Prospect of Eton College; Goldsmith's Deserted Village, Retaliation, and Vicar of Wakefield; Johnson's Vanity of Human Wishes, Rasselas; Burke's two American Speeches, Reflections on the Revolution in France—the first half, Letter to a Noble Lord; Cowper's Task—Book I.; Burns—selected poems.

Leslie Stephen's Life of Johnson, Dobson's Life of Goldsmith, Morley's Life of Burke.

(4.) 1789–1832. Wordsworth—selected poems; Coleridge's Ancient Mariner, Love, Biographia Literaria—selected chapters; De Quincey's Recollections of Coleridge and Wordsworth, The Affliction of Childhood, The English Mail Coach; Lamb's Essays of Elia—selections; Byron's Childe Harold (Canto IV.); Shelley—selected poems; Keats—selected poems.

(5.) 1832–1880. Carlyle's Sartor Resartus (Book II., and Book III., chapter 8), Essay on Burns; Ruskin's Sesame and Lilies, Fors Clavigera (Letter V.); Matthew Arnold's Culture and Anarchy (chapter I.), selected poems; Browning—selected poems; Tennyson—selected poems.

Course I. is elective for Juniors.

II. ENGLISH LITERATURE of the Victorian Period, 1832–1880. Carlyle, Ruskin, Matthew Arnold, Tennyson, and Browning. Critical reading and discussion; lectures.

Section I., *Tu., Wed., at 9;* Section II., *Tu., Wed., at 10; counting as three hours a week.*

III. ENGLISH LITERATURE of the Period of Queen Anne, 1700–1745. DeFoe, Steele, Addison, Swift, Pope. Critical reading and discussion; lectures. *Twice (counting as three times) a week.*

Courses II. and III. are elective (with some restrictions) for those who have taken Course I. Course II. will be omitted in 1893–94. Course III. is omitted the present year.

IV. THE ELEMENTS OF LITERARY CRITICISM. A course of lectures upon the essential elements and the various forms of literature; with collateral reading of the Poetics of Aristotle and the Ars Poetica of Horace, and practical exercises in the application of critical principles. *Fri., at 10.*

Course IV. is elective for those who have taken Course I.

V. THE HISTORY OF ENGLISH LITERARY CRITICISM. An outline

study of the growth and development of English criticism, and of the changes in critical standards from the sixteenth to the nineteenth century.

Sidney's Defense of Poesie, Dryden's Prefaces and Essay on Dramatic Poetry, Addison's Papers on Paradise Lost, selections from the critical writings of Johnson, and from the Reviewers of the beginning of this century, will be studied as representing various phases of English critical opinion. *Tu., 3:30-5.*

Course V. is open to graduate students only.

VI. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior must write an argument for debate before his class, and either four essays or two public orations. All written work receives the personal criticism of the Professor, and the orations are also rehearsed before the Professor of Elocution.

ENGLISH LANGUAGE.

ASSOCIATE PROFESSOR MEAD.

I. ENGLISH LANGUAGE. A. General History of the English Language, with lectures and illustrative examples from Anglo-Saxon. Lounsbury's History of the English Language, Part I., and Sweet's Anglo-Saxon Primer.

B. A course in the historical plays of Shakspere, with collateral reading in English history and the literary history of the Elizabethan period.

Wed., at 12 (1st half-year); Th., at 11 (2nd half-year); A. and B. meeting in alternate weeks.

Freshmen are required to take either I. A or I. B.

II. RHETORIC. Hill's Principles of Rhetoric. The members of the class are required to write—in addition to their regular essays—weekly exercises illustrating and applying the principles laid down in the text-book. These exercises are discussed and criticised by the class. As a study in modern prose style, the class read and discuss in the class-room Macaulay's Essays on Samuel Johnson, and selections from De Quincey's Essays. *Mon., Tu., Th., at 9 (1st half-year).*

Course II. is required of Sophomores.

III. ENGLISH COMPOSITION. A. Elementary Rhetoric, with Macaulay's Essay on Addison, selections from the Spectator, and frequent written exercises.

Section I., *alternate Th., at 10;* Section II., *alternate Fr., at 3.*

Course III. A is required of Freshmen.

B. Sophomores write six essays during the year on subjects approved by the Professor. Each member of the class meets the Professor privately for individual criticism.

C. Juniors write on subjects of their own selection, and choose one of the two following courses:—Course I., consisting of five general, and two special essays; Course II., consisting of two general, and four special essays. The special essays must be written on subjects related to some department of college work, and the topics submitted in writing to the Professor for approval. Appointments for individual criticism are made for each member of the class.

IV. ANGLO-SAXON. 1. Bright's Anglo-Saxon Reader, with an introductory course in Sweet's Anglo-Saxon Primer. Sievers' Old English Grammar is used for reference. Skeat's Primer of English Etymology is taken as the basis for studies in derivations. For exercises in sight translation, King Alfred's Orosius is read in class. As collateral reading, Freeman's Old English History and Gardiner's Student's History of England are recommended. Literary history is treated chiefly in lectures.

2. Each member of the class is required, in addition, to select one of the following courses for private reading:

(1.) King Alfred's Pastoral Care.

(2.) The Blickling Homilies, and selections from Wulfstan's Homilies.

(3.) Cynewulf's Elene or Cædmon's Exodus and Daniel; selections from Ælfric.

(4.) Selections from the Anglo-Saxon Chronicle, with the poems of the Chronicle. *Tu., Wed., at 10 (counting as three hours a week).*

Course IV. is elective for Sophomores. It must be taken by all who intend to elect the courses in Early English, or to take a special honor in English.

V. EARLY ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's Specimens of Early English. The historical development of the literature receives more attention than in the course in Anglo-Saxon. For collateral reading ten Brink's History of English Literature is recommended.

2. Each member of the class elects one of the following courses of collateral reading, and presents at least one thesis on a topic requiring special investigation:

(1.) Selections from the Arthurian Romances, with a study of some of their sources:—Nennius, Historia Britonum; Geoffrey of Monmouth, Historia Regum Britanniæ; the Romance of Merlin; Malory's Morte Darthur (ed. Sommer); Sir Gawayne and the Green Knight.

(2.) Selections from the Charlemagne Romances:—G. Paris, Histoire poétique de Charlemagne; La Chanson de Roland (ed. L. Gautier); the English Charlemagne Romances.

(3.) Selections from Chaucer's Canterbury Tales and minor poems.

(4.) Selections from the metrical chroniclers.

(5.) Selections from religious prose literature, the Ancren Riwle, Dan Michel's Ayenbite of Inwyt, etc. *Twice (counting as three times) a week.*

Course V. is elective for Juniors who have taken Course IV.

Courses IV. and V. are given in alternate years, Course IV. being given the present year.

VI. BEÓWULF. The poem is read as a piece of literature, rather than as a text for the study of grammar and etymology. Each member of the class presents at the end of the year a thesis on a topic assigned by the Professor. *Once a week.*

Course VI. is elective for those who have taken Course IV. It is omitted the present year.

VII. GRADUATE INSTRUCTION. A graduate course in Gothic, with especial reference to English etymology, is given this year. In addition to independent phonetic investigations, there are regular meetings for the reading of the text of Wulfila and for discussion of etymological questions. The books used include Wright's Gothic Language Primer, Balg's edition of Wulfila, Balg's translation of Braune's Gotische Grammatik, Skeat's Element's of English Etymology, Balg's Comparative Glossary of the Gothic Language. *Th., at 3.*

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Members of the Freshman Class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six, declamations in the year.

II. THEORY OF ELOCUTION. The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given. The text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the source of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation, to be delivered before the class for criticism. *Tu., Th., at 3.*

Course II. is elective for Juniors.

HISTORY AND JURISPRUDENCE.

ASSOCIATE PROFESSOR STEPHENSON.

I. ENGLISH CONSTITUTIONAL AND GENERAL HISTORY. Taswell-Langmead's English Constitutional History, and Gardiner's History of England, supplemented, for the purpose of illustration and comparison, by topical lectures and parallel readings in the general histories of England. *Mon., Th., at 8; Tu., at 2.*

II. HISTORY OF THE UNITED STATES. This course consists, in the first half-year, of class drill in the colonial portion of Doyle's History of the United States, in Thwait's Colonies, in Fiske's Critical Period of American History, in Johnston's History of American Politics, and in collateral authorities; in the second half-year, of lectures on the history of the sixty years beginning with the administration of Andrew Jackson and closing with the first administration of Cleveland and the end of the first century of the constitution. *Three times a week.*

Courses I. and II. are elective for Juniors, in alternate years. Course I. is given the present year.

III. EUROPEAN HISTORY. In this course are considered the leading facts of European history, from the fall of the Western Roman Empire to the death of Napoleon. Emerton's Introduction to the Middle Ages, Duruy's History of the Middle Ages, and Stillé's Studies in Mediæval History are used for class drill in the first half-

year. The latter half of the year is devoted to the history of the 15th, 16th, 17th, and 18th centuries. *Wed., Fri., at 3.*

Course III. is elective for Juniors.

IV. CONSTITUTION OF THE UNITED STATES. Fiske's Civil Government in the United States and Cooley's Principles of Constitutional Law are used as text-books. The former is passed rapidly through as an introduction to the more extended and careful study of the fundamental law of the Union as set forth in Cooley. The object of the instruction is to familiarize the class with all the main aspects of our constitution, both state and federal, unwritten developments, practical questions, legislative machinery, etc. For this purpose various commentaries of different grades are more or less used, and supplementary lectures are given. *Twice a week during the second half-year.*

Course IV., which has hitherto been required of Juniors, will hereafter be required of Seniors. It is therefore omitted the present year.

V. ROMAN JURISPRUDENCE. The general history of Roman law is studied during the first half of the year. Muirhead's Roman Law is used as a text-book. The latter half of the year is given to a somewhat careful study and comparison of the Code of Gaius and the Institutes of Justinian, with lectures upon the influence of Roman law on the various European codes. *Wed., at 8; Fri., at 9.*

Course V. is elective for Juniors.

VI. HISTORY OF INSTITUTIONS. The central aim of this course is to put the development of the political institutions and of the politics of the United States in its true historical setting. Wilson's The State is used, and parallel readings are assigned. *Wed., Th., at 9.*

Course VI. is elective for Seniors who take, or have taken, Course III.

ECONOMICS AND SOCIAL SCIENCE.

ASSOCIATE PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General Introductory Course. The ground to be covered corresponds quite closely to that covered by Walker's Political Economy (advanced course) or Andrew's Institutes of Economics. Recitations, with reports by the class on special topics.

Course I. is required of Seniors, the class meeting twice a week throughout the year, and also of Juniors, the class meeting three times

a week during the second half-year. After this year the Senior division will no longer be given.

Seniors, *Mon.*, *Tu.*, *at 12;* Juniors, *Mon.*, *Tu.*, *Th.*, *at 9.*

II. APPLIED ECONOMICS. A course in economic problems of the present. The discussions cover such questions as the Monetary Situation, the Railway Problem, the Tariff, Taxation, Labor, Socialism, Banking. *Tu.*, *Fri.*, *at 8.*

Course II. is elective for Seniors.

After the present year the following courses will also be offered in this department:

III. PRINCIPLES OF ECONOMIC SCIENCE. Advanced Historical and Theoretical Course. This course will include a brief historical view, on the basis of Ingram's History of Political Economy, and a critical study in the writings of some of the great English economists, Smith, Malthus, Ricardo, Senior, Mill, Cairnes, Jevons, Marshall. *Twice a week.*

Course III. will be elective for those who have taken Course I.

IV. STATISTICS. This course will deal primarily with statistical methods and principles, the correct procedure in collecting, digesting, and presenting statistical materials, the meaning and value of statistical laws, and the relation of statistics to the social sciences. It will describe briefly the most important statistical bureaus and their work, and review the bibliography of statistics. *Once a week.*

Course IV. will be elective for those who have taken Course I.

V. PUBLIC FINANCE. The first part of this course will be devoted to the general science of finance as outlined by Cossa. Thereafter attention will be given, in alternate years, to Public Debts, and to the existing schemes of taxation in Europe and America. *Twice a week.*

Course V. will be elective for those who have taken Course I.

VI. ECONOMIC SEMINARY for original individual investigations of Economics, Finance, or Statistics. *Twice a week.*

Course VI. will be elective for those who have taken Course I., and who have taken or are taking Courses II. and III.

PHILOSOPHY.

PROFESSOR ARMSTRONG.

I. LOGIC. Jevons-Hill's Elements of Logic. The aim of this course is to ground the student in the fundamental forms of reasoned

thinking, deductive and inductive alike. Logic is viewed not merely as a preliminary philosophical discipline, but as preparatory to all later and more advanced work. The study of the text-book is emphasized by numerous examples in logical praxis. *Mon., Th., at 9 (2nd half-year).*

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities, as Ladd's Outlines of Physiological Psychology, McCosh's Psychology, James's Principles of Psychology, and Baldwin's Handbook of Psychology. Instruction is not confined to the text-book, but lectures and discussions are used to explain and supplement it. These are introduced especially in illustration of the more recent psychological investigations and of positions still under debate. *Mon., Tu., Th., at 9 (1st half-year).*

Course II. is required of Juniors.

III. INTRODUCTION TO PHILOSOPHY. Stuckenberg's Introduction to the Study of Philosophy, with collateral readings in Ladd's Introduction to Philosophy. *Mon., Th., at 11 (1st half-year).*

Course III. is elective for Juniors.

IV. ANCIENT AND MEDIÆVAL PHILOSOPHY. Schwegler's History of Philosophy, with references to Zeller's Outlines of Greek Philosophy, as well as to Zeller's larger work, and to other authorities; lectures and discussions. *Mon., Th., at 11 (2nd half-year).*

Course IV. is elective for those who have taken Course III.

V. HISTORY OF MODERN PHILOSOPHY. An outline history of the development of philosophic thought in the modern era, to the death of Hegel. Instruction is given mainly by lectures, with references to the standard histories of Philosophy, as Schwegler, Falckenberg, Ueberweg, Erdmann, and by recitations and discussions on the systems considered. *Tu., Wed., Fri., at 11 (1st half-year).*

Course V. is elective, under ordinary circumstances, for those who have taken Courses III. and IV.

VI. SELECTIONS FROM LEADING MODERN PHILOSOPHERS. In this course, representative works of leading modern thinkers from Descartes to Kant are studied and discussed. The course is based on such works as Veitch's Method, Meditations and Selections from the Principles of Descartes, Locke's Essay on Human Understanding, Fraser's Selections from Berkeley, Hume's Enquiry concerning Human Understanding, Kant's Prolegomena, etc. The course includes also

lectures on philosophy since Hegel's death. *Tu., Wed., Fri., at 11 (2nd half-year).*

Course VI. is elective for those who have taken Courses III., IV., and V.

GRADUATE INSTRUCTION. Courses of graduate study may be arranged for in Advanced Psychology, and in the History of Philosophy, on application to the Professor of the department.

ETHICS AND EVIDENCES OF CHRISTIANITY.

PRESIDENT RAYMOND.

I. EVIDENCES OF CHRISTIANITY. Fisher's Grounds of Theistic and Christian Belief—selected chapters, covering about 350 pages. This work is supplemented by lectures on the chief topics, such as Miracles, Prophecy, The Gospel Adapted to Man, and several others. *Wed., Th., at 12 (1st term).*

Course I. is required of Seniors.

II. ETHICS. 1. Bowne's Principles of Ethics. Recitations and class discussions.

2. A comparative view of the several ethical theories is given by a rapid review of parts of Martineau's Types of Ethical Theory, lectures by the instructor, and essays on assigned topics by members of the class. *Wed., Th., at 12 (2nd term).*

Course II. is required of Seniors.

III. THEISM. Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Wed., Th., at 8 (2nd half-year).*

Course III. is elective for those who have taken Courses I.–V. in Philosophy.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. JAMES; DR. EICHELBERGER.

I. SOLID GEOMETRY. Chauvenet's Elementary Geometry. *First third of the year.* DR. EICHELBERGER.

TRIGONOMETRY. Wells' Plane and Spherical Trigonometry; Newcomb's Logarithmic Tables. *Second third of the year.* DR. EICHELBERGER.

ANALYTICAL GEOMETRY,—elementary course. Wentworth's Analytical Geometry. *Last third of the year.* DR. EICHELBERGER.

Section I., *Mon., Tu., Wed., Fri., at 10;* Section II., *Mon., Tu., Th., Fri., at 9;* Section III., *Mon., Tu., Th., Fri., at 12.*

Course I. is required of Classical and Latin-Scientific Freshmen.

II. ALGEBRA. Wells' College Algebra. *Wed., at 11; Fri., at 2.* DR. EICHELBERGER.

Course II. is elective for those who have taken Course I.

III. APPLICATIONS OF TRIGONOMETRY to Surveying, Navigation, and elementary problems in Astronomy. Wentworth's Navigation and Surveying, with instrumental practice. *Twice a week.*

Course III. is elective for those who have taken Course I. It is omitted the present year, but will be given in 1893–94.

IV. ANALYTICAL GEOMETRY,—advanced course. Salmon's Conic Sections; Aldis' Solid Geometry. *Wed., Fri., at 9.* MR. JAMES.

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS,—elementary course. Osborne's Treatise on Differential and Integral Calculus. *Mon., Th., at 8.* PROFESSOR VAN VLECK.

Course V. is elective for those who have taken Course I. and take Course II. or Course IV.

Prospective candidates for special honors in Mathematics at graduation are advised to take Course V. in the Sophomore year.

VI. DIFFERENTIAL AND INTEGRAL CALCULUS,—advanced course. *Mon., Th., at 11.* PROFESSOR VAN VLECK.

Course VI. is elective for those who have taken Course V.

VII. MODERN GEOMETRY. *Twice a week.*

Course VII. is elective for those who have taken Courses IV. and V. It is omitted the present year, but will be given in 1893–94.

VIII. DIFFERENTIAL EQUATIONS. Johnson's Treatise on Differential Equations. *Tu., Fri., at 11.* MR. JAMES.

Course VIII. is elective for those who have taken Courses IV. and V.

IX. ANALYTICAL MECHANICS. *Tu., Wed., Fri., at 10.* PROFESSOR VAN VLECK.

Course IX. is elective for those who have taken Courses IV. and V.

X. ASTRONOMY,—a general course, requiring only elementary mathematics. Young's Text-book of General Astronomy. *Tu., Fri., at 12.* PROFESSOR VAN VLECK.

Course X. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

XI. SPHERICAL AND PRACTICAL ASTRONOMY,—based on Chauvenet's Manual, with practical exercises in the Observatory. *Mon., Th., at 9 (counting as three hours a week).* PROFESSOR VAN VLECK and DR. EICHELBERGER.

Course XI. is elective for those who have taken Course V.

GRADUATE INSTRUCTION. A course of lectures is given in the Theory of Functions, including Weierstrass' Theory of Elliptic Functions. PROFESSOR VAN VLECK.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS,—a general course, involving only elementary mathematics. Stewart's Lessons in Elementary Physics, extensively supplemented by lectures. *Mon., Tu., Th., Fri., at 12 (1st half-year); Mon., Tu., Wed., Th., Fri., at 12 (3 weeks of 2nd half-year).* PROFESSOR ROSA.

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. ELEMENTARY PRACTICAL PHYSICS,—involving such experiments as are described, for example, in Hall and Bergen's Text-book of Physics, or Worthington's Physical Laboratory Practice. The time required for each exercise is 2½ hours. *Tu., Th., at 2.* PROFESSOR CRAWFORD.

Course II. is elective for those who take, or have taken, Course I.

III. 1. HEAT. Balfour Stewart's Treatise on Heat. *Three times a week during the first term.* PROFESSOR CRAWFORD.

2. ELECTRICITY. Silvanus P. Thompson's Lessons in Electricity and Magnetism, Part II. *Three times a week during the second and third terms.* PROFESSOR ROSA.

Course III. is elective for those who have taken Course I. It is omitted the present year, but an equivalent course or courses will be given in 1893–94.

IV. 1. MECHANICS,—an elementary course based on Hicks's Elementary Dynamics, with special discussion of vibratory motion. *Wed., Fri., at 9 (1st half-year).* PROFESSOR CRAWFORD.

2. SOUND,—a course of lectures. *Wed., Fri., at 9 (2nd half-year).* PROFESSOR CRAWFORD.

Course IV. is elective for those who have taken Course I.

V. LIGHT. A course of lectures, giving a general survey of geometrical optics and the wave theory of light. *Wed., Sat., at 8.* PROFESSOR CRAWFORD.

Course V. is elective for those who have taken Course I. It will be omitted in 1893-94.

VI. ELEMENTARY APPLIED ELECTRICITY. In the first half-year, S. P. Thompson's Lessons is used. In the second half-year the course consists of lectures giving the modern theory of the electromagnet, and applying it to dynamos, motors, and other electrical apparatus. This course is, in the main, theoretical rather than technical. *Mon., Th., at 10.* PROFESSOR ROSA.

Course VI. is elective for those who have taken Course I.

Courses III.–VI. are meant to give a more complete survey of the experimental facts of the subjects which they cover than can be given in Course I., coupled with such mathematical discussions of the theories involved as require only elementary applications of the Calculus.

Students taking Courses III.–VI. are advised to take, if they have not already taken, Course V. in Mathematics.

VII. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, and Stewart and Gee. Experiments are assigned to each student according to his taste and skill, as well as the time which he purposes to devote to the study of Physics, and the use which he intends to make of his knowledge of the subject. The time required for each exercise is 2½ hours. Students choose two or three exercises a week, as they prefer. *Tu., Wed., Th., at 2.*

Course VII. is elective for those who have taken Course I.

VIII. PRACTICAL PHYSICS. A continuation of Course VII., with the same conditions as to time. *Tu., Wed., Th., at 2.*

Course VIII. is elective for those who have taken Course VII.

In Courses VII. and VIII. the work in Mechanics, Sound, Light, and Heat, is carried on in the Physical Laboratory in Observatory Hall, under Professor Crawford; the work in Electricity, in the Electrical Laboratory, under Professor Rosa.

IX. MATHEMATICAL THEORY OF ELECTRICITY. A course of lectures on the theory of Electricity and Magnetism. This course is

based upon Emtage's Mathematical Theory of Electricity and Magnetism, and the works of Maxwell, Mascart and Joubert, and others are used for reference. The differential and integral calculus is freely used, and an acquaintance with differential equations and solid analytical geometry is also helpful to those taking the course. *Tu., Th., at 9.* PROFESSOR ROSA.

Course IX. is elective, except by special arrangement, only for those who have taken Course III.

X. ALTERNATING CURRENTS OF ELECTRICITY. A course of lectures on the theory of periodic currents, based on Fleming's Alternate Current Transformer. *Wed., Fri., at 10.* PROFESSOR ROSA.

Course X. is open, with certain special exceptions, only to graduate students.

XI. WEEKLY JOURNAL MEETING. The Professors of the department meet the graduate students for the purpose of reporting and discussing articles from the current English, French, and German journals of general Physics and Electricity. *Wed., at 12.*

CHEMISTRY.

PROFESSOR ATWATER; ASSOCIATE PROFESSOR BRADLEY; MR. DAINS.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. Eliot and Storer's Text-book of Chemistry was used last year, as giving very convenient descriptions of experiments. Each student performs the larger number of the experiments given in such a book, and numerous others. *Mon., Tu., Wed., Th., Fri., at 12 (last 14 weeks of the year).* PROFESSOR ATWATER.

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies 2½ hours. *Mon., Wed., Fri., at 2.* PROFESSOR BRADLEY.

Course II. is elective for those who have taken Course I.

In Courses II., III., and V., students choose two or three exercises a week, as they prefer.

III. QUANTITATIVE ANALYSIS. A practical course in gravimetric and volumetric analysis. Each exercise occupies 2½ hours. *Mon., Wed., Fri., at 2.* PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course II.

IV. ORGANIC AND PHYSIOLOGICAL CHEMISTRY. Lectures and recitations.

1. The principles of organic chemistry, as illustrated by the derivatives of methane and benzene. *Tu., Wed., Fri., at 8 (1st and 2nd terms).* PROFESSOR BRADLEY.

2. Selected chapters of physiological chemistry. Special attention was given last year to the chemistry of nutrition. *Tu., Wed., Fri., at 8 (3rd term).* PROFESSOR ATWATER.

Course IV. is elective for those who have taken Course II.

V. ORGANIC CHEMISTRY. A practical course, devoted to the preparation, purification, and analysis of compounds of carbon. It is desirable that this course be taken in connection with, or after, Course IV. Each exercise occupies 2½ hours. *Mon., Wed., Fri., at 2.* MR. DAINS.

Course V. is elective for those who have taken Course II.

VI. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Tu., Fri., at 9.* PROFESSOR BRADLEY.

Course VI. is elective for those who have taken Course II.

VII. APPLIED CHEMISTRY. Lectures on the chemistry of the acid and alkali industries; of the manufacture of glass, porcelain, and explosives; and of photography. *Wed., at 9.* MR. DAINS.

Course VII. is elective for those who have taken Course I.

GRADUATE INSTRUCTION. A course devoted mainly to research, and open to graduate students who have completed Courses I.–IV., and VI., or their equivalent. It is essential that graduate students should possess the ability to read easily ordinary German.

GEOLOGY.

PROFESSOR RICE; MR. WESTGATE.

[NOTE.—Courses I., II., and IV. are omitted the present year, owing to the absence of Professor Rice, but will be given in 1893-94. In that year Course I. will be required of Classical and Latin-Scientific Seniors and Juniors, and of Scientific Juniors and Sophomores.]

I. ELEMENTARY GEOLOGY. LeConte's Compend of Geology is used as a text-book, and is supplemented by lectures. The problems of dynamical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. *Twice a week.*

Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. ADVANCED GEOLOGY. The work of this class commences with a short course of lectures on Lithology. During the greater part of the year, informal and conversational recitations in LeConte's Elements of Geology are held three times a week. Special topics for study, with references to authorities, are from time to time assigned to each member of the class. Lectures on these topics are given by the members of the class, and are criticised and discussed. The Saturdays (except in winter) are generally occupied by excursions. In each excursion, one member of the class is appointed to present a report on the phenomena observed, in the form of a lecture to the class at its next meeting. *Three (counting as four) times a week.*

Course II. is elective for those who have taken Course I.; but it is very desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, with Geikie's Elementary Lessons as text-book. *Tu., Wed., Fri., at 10 (13 weeks in the 1st and 2nd terms).* MR. WESTGATE.

Course III. (in connection with II. Biology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

IV. MINERALOGY. This course comprises three parts, each occupying approximately one term:—1, a course of lectures on crystallography, with practical exercises in the study of crystallographic models and of crystals; 2, a brief course of lectures on optical mineralogy, and a course of laboratory work in determinative mineralogy; 3, a course of lectures on descriptive mineralogy. The works of Dana and Brush, and Williams' Elements of Crystallography, are used for reference. *Three times a week.*

Course IV. is elective for Classical and Latin-Scientific Juniors, and for Scientific Sophomores.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and

enough hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures. *Mon., Th., at 12.*

Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the fern, the earthworm, and the frog, which are used as illustrating the general structure and physiology of plants and animals. This course is designed as an introduction to the studies of Botany, Zoology, and Physiology. *Tu., Wed., Fri., at 10 (first 8 weeks of the 1st term).*

BOTANY. Grays Lessons is used, accompanied by lectures on subjects not treated in the text-book. As soon as the season allows, the class-room exercises are replaced by laboratory work, including the analysis and description of plants, and the study of structural botany. *Tu., Wed., Fri., at 10 (last third of the year).*

Course II. (in connection with III. Geology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

III. ZOOLOGY. Lectures, recitations, and class dissections. Typical examples, illustrating the various groups of the animal kingdom, are described, and dissected by the class, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Mon., Th., at 10.*

Course III. is elective for Classical Juniors, and for Latin-Scientific and Scientific Sophomores.

IV. PRACTICAL BIOLOGY. The design of the courses in Practical Biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such

as amœba, infusoria, hydra, earthworm, bacteria, yeast, mold, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2.*

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY,—advanced course. The second year is devoted to experiments in physiology, and to the study of histology, bacteriology, embryology, and mammalian anatomy. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2.*

Course V. is elective for those who have taken Course IV.

In Courses IV. and V. students choose two or three exercises a week, as they prefer.

VI. EVOLUTION,—a course of lectures and recitations on the general subject. *Fri., at 9.*

Course VI. is elective for Juniors. It will be omitted in 1893-94.

GRADUATE INSTRUCTION. The Laboratory work of the graduate student is of a different character from that of the undergraduate. Any undergraduate work that may have been omitted in his previous course is first completed, but the student is more independent, and his work is more advanced. In all cases it is expected that there will be some work of independent investigation, either on the part of the student alone, or in conjunction with the Professor.

Tabular Statement of the Courses of Study.

Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the Courses of Instruction in that department.

The Arabic numerals indicate the number of exercises per week for the year in the respective studies.

In addition to those studies which are specified as required, each student must choose enough elective studies to make his whole number of lectures or recitations not less than fourteen, nor more than seventeen, per week. In making up this quota, studies which count for more than the number of exercises actually held are indicated by numbers added in a parenthesis.

Studies marked by a * are given the current year, but will be omitted next year; those marked by a † are omitted the current year, but will be given next year.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	4	I. Mathematics,	4
I. Greek,	4	I. English Language,	1

ELECTIVE.

I. German,	3	I. French,	3

SOPHOMORE YEAR.

REQUIRED.

Rhetoric, Logic,	2½	I. Physics, I. Chemistry,	4½

ELECTIVE.

II. Latin,	2	Italian,	2
III. Latin,	2	*Anglo-Saxon,	2 (3)
VII. Latin,	1	II. Mathematics,	2
*IX. Latin,	1	†III. Mathematics,	2
†X. Latin,	1	IV. Mathematics,	2
II. Greek,	2	V. Mathematics,	2
III. Greek,	1	II. Physics,	2
II. German,	3	Physical Geography, II. Biology,	3
II. French,	2		
III. French,	1		

Each student must include in his electives one of the following combinations:—1. not less than one course of two hours per week in each of the three departments of Latin, Greek, and Mathematics; 2. not less than five hours per week of electives in Mathematics and

Physics, both Latin and Greek being dropped; 3. not less than five hours per week in Latin and Greek, and not less than one course of two hours per week in each of those departments.

JUNIOR YEAR.

REQUIRED.

Psychology, Political Economy,	3	Astronomy, Physiology,	4
		†Geology,	2

ELECTIVE.

*IV. Latin,	2	V. History,	2
†V. Latin,	2	III. Philosophy,	1
†VI. Latin,	2	IV. Philosophy,	1
*VIII. Latin,	1	VI. Mathematics,	2
*IV. Greek,	3	†VII. Mathematics,	2
†V. Greek,	3	†III. Physics,	3
†VI. Greek,	2	IV. Physics,	2
Hebrew,	5	*V. Physics,	2
*III. German,	2	*VI. Physics,	2
IV. French,	2 (3)	VII. Physics,	2 or 3
I. English Literature,	3	II. Chemistry,	2 or 3
†V. English Language,	2 (3)	VII. Chemistry,	1
†VI. English Language,	1	†IV. Geology,	3
Elocution,	2	III. Biology,	2
*I. History,	3	IV. Biology,	2 or 3
†II. History,	3	*VI. Biology,	1
III. History,	2		

SENIOR YEAR.

REQUIRED.

†Constitution of U. S.,	1	Christian Evidences, Ethics,	2
*Political Economy,	2		

ELECTIVE.

XII. Latin,	4	†IV. Economics,	1
VII. Greek,	3	†V. Economics,	2
*V. French,	1 (2)	†VI. Economics,	2
†VI. French,	1 (2)	V. Philosophy,	1½
*II. English Literature,	2 (3)	VI. Philosophy,	1½
†III. English Literature,	2 (3)	Theism,	1
IV. English Literature,	1	VIII. Mathematics,	2
VI. History,	2	IX. Mathematics,	3
II. Economics,	2	XI. Mathematics,	2 (3)
†III. Economics,	2	VIII. Physics,	2 or 3

IX. Physics,	2	VI. Chemistry,	2
III. Chemistry,	2 or 3	†II. Geology,	3 (4)
IV. Chemistry,	3	V. Biology	2 or 3
V. Chemistry,	2 or 3		

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	4	Physical Geography, II. Biology.	3
I. Mathematics,	4		
I. English Language,	1		

ELECTIVE.

I. German,	3	I. French,	3
II. German,	3	II. French,	2

SOPHOMORE YEAR.

REQUIRED.

Rhetoric, Logic,	2½	I. Physics, I. Chemistry,	4½

ELECTIVE.

II. Latin,	2	*Anglo-Saxon,	2 (3)
III. Latin,	2	II. Mathematics,	2
VII. Latin,	1	†III. Mathematics,	2
*IX. Latin,	1	IV. Mathematics,	2
†X. Latin,	1	V. Mathematics,	2
*III. German,	2	II. Physics,	2
III. French,	1	III. Biology,	2
Italian,	2		

JUNIOR YEAR.

REQUIRED.

Psychology, Political Economy,	3	Astronomy, Physiology,	4
		†Geology,	2

ELECTIVE.

*IV. Latin,	2	I. English Literature,	3
†V. Latin,	2	†V. English Language,	2 (3)
†VI. Latin,	2	†VI. English Language,	1
*VIII. Latin,	1	Elocution,	2
Hebrew,	5	*I. History,	3
IV. French,	2 (3)	†II. History,	3

III. History,	2	* V. Physics,	2
V. History,	2	* VI. Physics,	2
III. Philosophy,	1	VII. Physics,	2 or 3
IV. Philosophy,	1	II. Chemistry,	2 or 3
VI. Mathematics,	2	VII. Chemistry,	1
† VII. Mathematics,	2	† IV. Geology,	3
† III. Physics,	3	IV. Biology,	2 or 3
IV. Physics,	2	* VI. Biology,	1

SENIOR YEAR.

REQUIRED.

† Constitution of U. S.,	1	Christian Evidences, }	2
* Political Economy,	2	Ethics, }	

ELECTIVE.

XII. Latin,	4	VI. Philosophy,	1½
* V. French,	1 (2)	Theism,	1
† VI. French,	1 (2)	VIII. Mathematics,	2
* II. English Literature,	2 (3)	IX. Mathematics,	3
† III. English Literature,	2 (3)	XI. Mathematics,	2 (3)
IV. English Literature,	1	VIII. Physics,	2 or 3
VI. History,	2	IX. Physics,	2
II. Economics,	2	III. Chemistry,	2 or 3
† III. Economics,	2	IV. Chemistry,	3
† IV. Economics,	1	V. Chemistry,	2 or 3
† V. Economics,	2	VI. Chemistry,	2
† VI. Economics,	2	† II. Geology,	3 (4)
V. Philosophy,	1½	V. Biology,	2 or 3

SCIENTIFIC COURSE.

The following course is laid down for those who enter college according to the requirements marked A on page 26. The modifications of this course for those who enter according to requirements B or C are indicated below.

FRESHMAN YEAR.

REQUIRED.

I. English Language,	1	I. German,	3
I. Physics, }	4½	II. French,	2
I. Chemistry, }		or	
Physical Geography, }	3	II. German,	3
II. Biology, }		I. French,	3

ELECTIVE.

II. Mathematics,	2	IV. Mathematics,	2
†III. Mathematics,	2	II. Physics,	2

SOPHOMORE YEAR.

REQUIRED.

II. German, or II. French,	3 / 2	Astronomy, or Physiology,	4
Rhetoric, Logic,	2½	†Geology,	2

ELECTIVE.

*IX. Latin,	1	IV. Physics,	2
†X. Latin,	1	*V. Physics,	2
*III. German,	2	*VI. Physics,	2
III. French,	1	VII. Physics,	2 or 3
Italian,	2	II. Chemistry,	2 or 3
*Anglo-Saxon,	2 (3)	VII. Chemistry,	1
V. Mathematics,	2	†IV. Geology,	3
†III. Physics,	3	III. Biology,	2

JUNIOR YEAR.

REQUIRED.

Psychology, or Political Economy,	3

ELECTIVE.

Hebrew,	5	†VII. Mathematics,	2
IV. French,	2 (3)	VIII. Mathematics,	2
I. English Literature,	3	IX. Mathematics,	3
†V. English Language,	2 (3)	XI. Mathematics,	2 (3)
†VI. English Language,	1	VIII. Physics,	2 or 3
Elocution,	2	IX. Physics,	2
*I. History,	3	III. Chemistry,	2 or 3
†II. History,	3	IV. Chemistry,	3
III. History,	2	V. Chemistry,	2 or 3
V. History,	2	VI. Chemistry,	2
III. Philosophy,	1	†II. Geology,	3 (4)
IV. Philosophy,	1	IV. Biology,	2 or 3
VI. Mathematics,	2	*VI. Biology,	1

SENIOR YEAR.

REQUIRED.

† Constitution of U. S.,	1	Christian Evidences, }	2
* Political Economy,	2	Ethics, }	

ELECTIVE.

* V. French,	1 (2)	† IV. Economics,	1
† VI. French,	1 (2)	† V. Economics,	2
* II. English Literature,	2 (3)	† VI. Economics,	2
† III. English Literature,	2 (3)	V. Philosophy,	1½
IV. English Literature,	1	VI. Philosophy,	1½
VI. History,	2	Theism,	1
II. Economics,	2	V. Biology,	2 or 3
† III. Economics,	2		

The course for those who enter college according to the set of requirements marked B, page 27, is the same as the above, with the following modifications:—

I. Mathematics, and either II. French or II. German, are required in Freshman year. III. and IV. Mathematics are elective in Sophomore year.

Those who enter according to the requirements marked C, page 27, are required to take I. Mathematics in Freshman year, and, for such of the courses I. Physics, I. Chemistry, Physical Geography, and II. Biology as they pass on at entrance, they substitute enough elective work to fill out the required quota of exercises per week. Their course in other respects, both as to required and elective studies, is the same as for those who enter according to requirements A, except that their elective studies in Mathematics follow the order just indicated for those who enter according to the requirements B.

In addition to the courses indicated in the foregoing tabular statement, exercises in English composition and public speaking are required of all classes, as specified on pages 38, 40.

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on pages 60 and 61. In that table the sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the Instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the above statement of Courses of Instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.

DAILY PROGRAMME.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
8.	IV. Greek. II. French. I. History. V. Mathematics.	III. Greek. I. German. Italian. II. Economics. I. Physics. 2. IV. Chemistry.	XI. Latin. IV. Greek. I. German. III. French. V. History. Theism (2nd half-year). V. Physics. IV. Chemistry.	IV. Greek. II. French. I. History. Theism (2nd half-year). V. Mathematics.	I. German. Italian. II. Economics. I. Physics. 2. IV. Chemistry.	II. German. V. Physics.
9.	I. Latin. 1. Rhetoric (1st half-year). Logic. (2nd half-year). Psychology (1st half-year). Political Economy (Juniors)(2nd half-year). I. Mathematics. 2. XI. Mathematics.	I. Latin. 1. II. English Literature. 1. Rhetoric (1st half-year). Psychology(1st half-year) Political Economy (Juniors) (2nd half-year). I. Mathematics. 2. IX. Physics. VI. Chemistry.	XI. Latin. II. Greek. 1. II. English Literature. 1. VI. History. IV. Mathematics. IV. Physics. VII. Chemistry.	I. Latin. 1. Rhetoric (1st half-year). Logic. (2nd half-year). VI. History. Psychology (1st half-year). Political Economy(Juniors) (2nd half-year). I. Mathematics. 2. XI. Mathematics. IX. Physics.	I. Latin. 1. II. Greek. 1. V. History. I. Mathematics. 2. IV. Mathematics. IV. Physics. VI. Chemistry. VI. Biology.	
10.	III. Latin. I. Greek. 2. VII. Greek. Hebrew. I. Mathematics. 1. VI. Physics. III. Biology.	V. Latin. I. Greek. 2. Hebrew. II. English Literature. 2. Anglo-Saxon. I. Mathematics. 1. IX. Mathematics. Physical Geography. } II. Biology. . }	I. Greek. 2. Hebrew. II. English Literature. 2. Anglo-Saxon. I. Mathematics. 1. IX. Mathematics. Electricity (Graduate). Physical Geography. } II. Biology. }	III. Latin. Hebrew. V. French. VI. Physics. III. Biology. English Composition (Freshmen, 1).* Declamation(Juniors,8).* Declamation (Freshmen, 1).*	I. Greek. 2. Hebrew. III. English Literature. I. Mathematics. 1. IX. Mathematics. Electricity (Graduate). Physical Geography. } II. Biology. }	
11.	II. Latin. I. Greek. 1. III. German. III. Philosophy (1st half-year). IV. Philosophy (2nd half-year). VI. Mathematics.	I. Greek. 1. IV. French. I. English Literature. V. Philosophy (1st half-year). VI. Philosophy (2nd half-year). VIII. Mathematics. II. Biology.	I. Greek. 1. VII. Greek. I. English Literature. V. Philosophy (1st half-year). VI. Philosophy (2nd half-year). II. Mathematics. II. Biology. Declamation (Sophomores, 4).*	II. Latin. VII. Greek. III. German. I. English Language (2nd half-year). III. Philosophy (1st half-year). IV. Philosophy (2nd half-year). VI. Mathematics. Declamation (Juniors, 5, 6, 7).*	I. Greek. 1. IV. French. I. English Literature. V. Philosophy (1st half-year). VI. Philosophy (2nd half-year). VIII. Mathematics. II. Biology.	

DAILY PROGRAMME.—(Continued).

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.

12.	I. Latin. 2.
	Political Economy (Seniors).
	I. Mathematics. 3.
	I. Physics. {
	I. Chemistry. {
	Physiology.
		I. Latin. 2.
		Political Economy (Seniors).
		I. Mathematics. 3.
		Astronomy.
		I. Physics. 1. {
		I. Chemistry. {
			I. English Language (1st half-year).
			Evidences of Christianity (1st term).
			Ethics (2nd term).
			I. Physics. { (2nd
			I. Chemistry. { half-year)
			Physical Journal Meeting.
			Declamation (Juniors, 1, 2, 3, 4).*
				I. Latin. 2.
				Evidences of Christianity (1st term).
				Ethics (2nd term).
				I. Mathematics. 3.
				I. Physics. {
				I. Chemistry. {
				Physiology.
					I. Latin. 2.
					I. Mathematics. 3.
					Astronomy.
					I. Physics. 1. {
					I. Chemistry. {
					Forensics.*	

2.	II., III., V. Chemistry.	I. History. II., VII., VIII. Physics. IV., V. Biology. Declamation (Sophomores, 1).* Declamation (Freshmen, 2).*	IV. Latin. VII., VIII. Physics. II., III., V. Chemistry. IV., V. Biology. Declamation (Sophomores, 2).* Declamation (Freshmen, 3).*	II., VII., VIII. Physics. IV., V. Biology. Declamation (Sophomores, 3).* Declamation (Freshmen, 4).*	II. Mathematics. II., III., V. Chemistry.	
3.	VIII. Latin. II. German. II., III., V. Chemistry.	I. French. English Literature (Graduate). Elocution. II., VII., VIII. Physics. IV., V. Biology.	II. Greek. 2. I. French. III. History. VII., VIII. Physics. II., III., V. Chemistry. IV., V. Biology.	I. French. Gothic (Graduate). Elocution. II., VII., VIII. Physics. IV., V. Biology.	VIII. Latin. II. Greek. 2. II. German. III. History. II., III., V. Chemistry. English Composition (Freshmen, 2).	
4.	II., III., V. Chemistry.	English Literature (Graduate). II., VII., VIII. Physics. IV., V. Biology.	VII., VIII. Physics. II., III., V. Chemistry. IV., V. Biology.	VI. Latin. II., VII., VIII. Physics. IV., V. Biology.	XI. Latin. II., III., V. Chemistry.	
5.					XI. Latin.	

GENERAL REGULATIONS.

SELECTION OF STUDIES.

In making a selection among the elective studies, the following rules are to be regarded:—

A student may take elective studies assigned to a class below his own, as well as those assigned to his own class; but not those assigned to a class above his own, except by special permission of the Faculty. The election must in all cases be made for the whole year, no changes from one department to another being permitted during the year. Studies must be selected whose hours of recitation do not conflict with each other, as indicated by the Daily Programme on pages 60 and 61. The student's selection must in all cases be subject to the approval of the Faculty.

In order to avoid misunderstanding, each student is required to present to the Secretary of the Faculty, on the first day of the first term, a list of the studies which he desires to take.

EXAMINATIONS.

Examinations, either oral or written, are held in all the studies of the course. The oral examinations are held near the close of the college year, and are conducted before an Examining Committee appointed by the Executive Committee of the Trustees. Written examinations are held at the end of each term, and during a specified week in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study, can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In this case the instructor may require the student to pass a preliminary examination before admitting him to the regular examination.

Special examinations will be held during the third term for those who have been absent, by permission, from the regular examinations which have occurred in the previous part of the year.

A special examination will be held, commencing on the Tuesday before the beginning of the first term, for those who have failed to

pass any of the examinations of the preceding year. Students who fail to pass at this examination are, in certain cases, required to attend recitations with the next class in the studies in which they are deficient, and to be examined with the class at the regular time.

A student desiring to take more than the prescribed quota of elective studies may present himself at the special examination, at the beginning of the first term, to be examined in advance in any required study, and, on showing evidence of a high degree of proficiency, he may be excused from recitation in that study.

PUBLIC WORSHIP.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city. Each student is allowed to elect what church he will attend, and is required to report such election to the Secretary at the beginning of each college year.

Voluntary religious services under the direction of the Faculty, the several college classes, and the Young Men's Christian Association, are held weekly.

LEAVE OF ABSENCE.

No absence from the town will be excused unless permission for such absence has first been obtained from the President.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	$75 00
Room Rent, for half-room, from $12.00 to $50.00; average,	26 00
Steam-heat; average for half-room,	10 00
General Repairs and Incidental Expenses,	24 00
Use of Library and Reading Rooms,	6 00
Total,	$141 00

Students in Practical Chemistry are charged for the use of apparatus, for chemicals, and for incidentals. The charge averages about nine dollars a term for quantitative, and about six dollars for qualitative analysis.

A fee of five dollars a term is charged to each student in Practical Physics, and also to each student in Practical Biology.

Ladies residing in the Ladies' Hall are charged at the rate of five dollars, or five dollars and a half, a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Hall.

A diploma fee of five dollars is charged to each student at graduation.

Persons holding *free*, *personal*, or *transferable* scholarships are exempt from charges for tuition.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on the day appointed. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board must in all cases be subject to the approval of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Gentlemen rooming in the college buildings provide for themselves furniture and lights.

Board may be obtained in private families at prices varying from $3.75 to $5.00 a week. A large majority of the students board in clubs, at prices ranging from $3.00 to $3.50 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOM.

The Library in Rich Hall contains about forty thousand volumes. The Library hall is open every week-day of term time, except Saturdays, from 8 A. M. to 1 P. M., and from 2.30 to 4.30 P. M.; on Saturdays, from 8 A. M. to 12 M., and from 1 P. M. to 3 P. M. Students are allowed direct access to the shelves. Copies of the Library Rules may be obtained from the Librarian.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. The second, or Library, reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Members of the Junior class have frequent opportunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical Astronomy are instructed in the theory and use of all the instruments in the Observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

The Biological Laboratory occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is used for miscel-

laneous laboratory work, one for physiological work, one for coarse dissection, and one for bacteriological work. The Laboratory is equipped with all apparatus necessary for elementary biological work, being supplied with microscopes, micrometers, water tanks, warm chambers, dissecting apparatus, myographs, bacteriological apparatus, etc., together with abundance of material for anatomical and histological study. The General Laboratory Room is provided with a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of most of the experiments usually undertaken in undergraduate courses; while, in the department of electricity, recent large additions of apparatus and machinery afford facilities for extended research, and for instruction in the use of all important electrical instruments. The laboratory work in all departments except electricity is carried on in the rooms on the ground floor of Observatory Hall. The building originally used as a chemical laboratory has been transformed into an electrical laboratory, in which the water, steam and gas pipes are of brass, thus affording a nearly undisturbed magnetic field, while the dynamos and associated instruments, and also a well-equipped workshop, are located at a convenient distance from the electrical laboratory in the boiler house.

Some of the most important pieces of apparatus and machinery used in the laboratory are the following:—Cathetometer, by Bamberg; balance, by Bunge; three balances, by Becker; reversion pendulum, by Société Genevoise; goniometer, by Hilger, with 18 inch circle (graduated by Troughton and Simms); heliostat, by Brashear; diffraction gratings; diffraction bench, by Duboscq; photometric apparatus; Jolly's air thermometer; most of the important pieces of Koenig's acoustic apparatus; Thomson's mirror galvanometer; Thomson's centi-ampere electrical balance; Mascart's quadrant electrometer; tangent and astatic galvanometers; resistance boxes; Weston's ammeters and voltmeters (two each); Cardew voltmeter; Siemens' electrodynamometer; standard ten-ohm coil from the Cavendish Laboratory; and a storage battery consisting of 56 Julien cells.

The principal machines in the dynamo room and workshop are the following:—A 25 horse-power Ball engine; Edison 5-kilowatt compound dynamo; Edison 3-kilowatt shunt motor and several small motors; Westinghouse "pony" alternating current dynamo and transformers; tachometer; Thomson wattmeters (for direct and alternating

currents); Reed lathe; American Watch Tool Co.'s lathe; Barnes drill; Garvin milling machine; and suitable outfit of hand and machine tools. The shop is in charge of a skilled mechanician who constructs apparatus for lecture and laboratory use.

THE CHEMICAL LABORATORY occupies five rooms in Judd Hall, with store-rooms in the basement. A large working-room on the first floor, with a balance-room adjoining, furnishes accommodations for about thirty students in analytical chemistry, and a smaller laboratory affords conveniences for the work of instructors and graduate students. A large room in the basement has recently been furnished and set apart for the laboratory work of the required course in Chemistry.

The rooms of the Physical Laboratory and some of the rooms of the Chemical and Biological Laboratories are lighted by electricity.

AGRICULTURAL EXPERIMENT STATION.—Through the courtesy of the Trustees of the University, the chemical investigations of the Storrs School Agricultural Experiment Station, of which Professor Atwater is Director, are conducted in one of the rooms of the Chemical Laboratory. This work is under the direction of Mr. Charles D. Woods. During the past year investigations have been made into the acquisition of atmospheric nitrogen by plants, the chemical composition of plants as affected by nitrogenous fertilizers, and the heats of combustion of organic substances. In a room recently fitted up in the basement of Judd Hall, preliminary experiments in the elaborating of a calorimetric apparatus are being made by Professor Rosa and the officers of the Station. Researches into the bacteriology of milk are conducted for the Station in the Biological Laboratory of the University, by Professor Conn.

MUSEUM.

The Museum of Natural History occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to educational purposes, and are freely accessible to students.

The nucleus of the Department of Zoölogy and Botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions in liberal donations and exchanges from the Smithsonian

Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by the late Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique.

The following is an approximate statement of the number of specimens in the various departments of the Museum:—

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	150
Fishes,	2,100
Insects—pinned and alcoholic,	3,800
nests, borings, etc.,	50
Crustacea,	1,500

Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Cœlentera,	1,500
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in Hebarium,	10,700
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	10,500
Fossils—Paleozoic,	2,700
Mesozoic,	800
Cenozoic,	2,000

The Museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A number of scholarships exempting the holders from the charge for tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This Scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is to be given annually to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this Scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

This Scholarship was awarded for the year 1891-92 to Gordon Lewis Thompson.

THE SQUIRE SCHOLARSHIP.

This Scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of $5,000 will be awarded to that member of the Senior class who shall pass the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of a committee of the Faculty.

This Scholarship was awarded, on the basis of the work done in the year 1891-92, to Pedro Gillot y Fernandez, B. A., this year a student at Heidelberg, Germany.

THE SENEY SCHOLARSHIPS.

These have been established by George I. Seney, M. A. They are forty-eight in number, and are divided among the classes equally.

They are awarded on the basis of the merit-roll, under such conditions as the founder of the Scholarships has prescribed. Their precise value for any year will depend on the income of the Scholarship Fund. For the present year they will range from fifty to one hundred and fifty-five dollars. It is stipulated by the founder of the Scholarships that no student shall be considered a candidate for any one of them who was not in attendance upon college exercises throughout the year for which the Scholarship is awarded, nor shall any Scholarship, though awarded, be paid to one who is absent from college during the year, or during any considerable part of the year, in which it is payable. No one who is regularly employed as a preacher or teacher shall, during the year in which he is so occupied, be considered a candidate for any of these scholarships. Nor shall any student be considered as a candidate for them during any year in which he shall have been the subject of serious college discipline, or in which, by reason of excess of absences, he shall have been excluded from examination.

The Scholarships for the three lower classes will be awarded as soon after the beginning of each academic year as the record of standing for the previous year can be prepared; and will be paid in three installments:—the first, immediately upon the assignment of the Scholarships; the second, at the beginning of the second term; the third, at the beginning of the third term.

The Senior Scholarships will be awarded in the week preceding Commencement, and will be paid at that time in one payment.

The College assumes responsibility for the payment of the Scholarships only to the measure of the income of the Scholarship Fund.

The Seney Scholarships have been awarded on the basis of the merit-roll of 1891-92, to the following persons:—

Class of 1892.—Lena Maud Adams, Wilbur Langdon Anderson, Arthur Peyton Bryant, George Willets Davison, Lincoln Robinson Gibbs, Pedro Gillot y Fernandez, Theodore Sommers Henderson, Nelson Chamberlin Hubbard, Charles Allison Miller, Edward Loranus Rice, Egbert James Tamblyn, Roger Everett Thompson.

Class of 1893.—Sarah Langton Abbott, Winfred Chandler Akers, George Hubbard Blakeslee, George Nelson Edwards, Wesley Elwell Lake, Daniel Acker Lehman, George Henry Moore, Vida Frank Moore, Lewis Johnson Norton, Frederick Curry Ostrander, Ashley Horace Thorndike, Leon Irving Wood.

Class of 1894.—Mary Eva Cramer, Abraham Howry Espenshade,

Alice Cora Fuller, Arthur Mathews Gates, Roscoe Allan Grant, Florence Alberta Graves, Charles Hubbard Judd, Susie Jane Mantle, Irving Avard Meeker, Lizzie Chapin Rice, Wilbur John Sawyer, Henry Archelaus Tirrell, Harry Reed Van Deusen.

Class of 1895.—John Abraham Anderson, James Lincoln Bahret, James Pendleton Erskine, Andrew Buchanan White Gillies, Fred Willis Guibord, Hiram Emery Miller, Samuel Bowman Opdyke, George Hale Ryder, Edward Lee Thorndike, Merle Bowman Waltz, Maud Eloise Wells, William Seaver Woods.

COLLEGE HONORS.

PRIZES.

The following prizes will be awarded during the present year:—

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior class whose oration at Commencement shall be deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before Tuesday, June 20th.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior class who shall excel in English Composition. The subject for the essay of 1893 is, The Political and Social Ideas of Thomas Carlyle. The subject for the essay of 1894 is, Tennyson as an Artist. The essays must be left with the Professor of English Literature on or before the first Monday of the third term.

The Harrington Prize will be awarded to that member of the Senior class who shall excel in History. It will be given in 1893 upon a special examination in the history course marked VI. in the present catalogue, page 42.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior class who shall write the best essay on some specified subject in the domain of Political Economy. The subject for the essay of 1893 is. The History and Criticism of the Wage-Fund Doctrine. The essays must be left with the head of the department on or before the third Monday in May.

A prize will be awarded to that member of the Senior class who shall excel in Christian Evidences.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded to that member of the Senior, Junior, or Sophomore class who shall excel in Natural Science. The examination for this prize this year will be in Chemistry.

The G. Brown Goode Prize, the gift of G. Brown Goode, LL. D., will be given for the best Original Investigation in the department of Natural History.

Two prizes will be awarded, as a first and second prize, respectively, to the two members of the Junior class who shall present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations will be considered.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior class who shall excel in English Literature.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior class who shall excel in Philosophy.

A prize will be awarded to that member of the Junior class who shall excel in Debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be given to that member of the Junior class who shall excel in Psychology.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded, in the same classes, as a second prize for excellence in Elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore class who shall excel in Greek.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore class who shall excel in Latin.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman class who shall excel in Greek.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman class who shall excel in Declamation.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in any of the college classes, who shall write the best English poem. The poem must be left with the Professor of English Literature before the Senior Examination.

The designation of the classes to which the prizes are offered is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold any one of these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:—

The Rich Prize, to Charles Stanton Hill.

The Olin Prize, to Lincoln Robinson Gibbs.

The Harrington Prize, to Egbert James Tamblyn.

The Wise Prize, to Lincoln Robinson Gibbs and Edward Loranus Rice.

The Joseph D. Weeks Prize, to Everett Hallerton Scott.

The Prize in Christian Evidences, to Edward Loranus Rice.

The Peirce Prize, to Edward Loranus Rice.

The G. Brown Goode Prize, to Edward Loranus Rice.

The First Junior Exhibition Prize, to Wesley Elwell Lake.

The Second Junior Exhibition Prize, to Ashley Horace Thorndike.

The Camp Prize, to Ashley Horace Thorndike.

The Weeks Prize, to Ashley Horace Thorndike.

The Prize for Debate, to Ashley Horace Thorndike.

The Walkley Prize, to Ashley Horace Thorndike.

The Parker Prize, to Fredric Worthen Frost.

The Scranton Prize, to Edwin Oscar Smith.

The Spinney Prize, to Abraham Howry Espenshade.

The Phi Beta Kappa Prize, to Roscoe Allan Grant.

The Rice Prize, to Daniel Acker Lehman.

The Sherman Prize, to Edward Lee Thorndike.

The Hibbard Prize, to Charles Otis Judkins.

The Ayres Prize for the present year has been awarded to Irville Charles LeCompte.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to the standing in Composition and Declamation subsequent to the Freshman year. The speakers at Commencement are selected according to the standing in Composition and Declamation subsequent to the Sophomore year. The number of speakers at each of these public exercises is limited to ten. The speakers last year were:—

AT THE JUNIOR EXHIBITION.—Winfred Chandler Akers, George Hubbard Blakeslee, Edgar Van Fossen DuBois, Hervey Howard, Wesley Elwell Lake, George Henry Moore, George Rowland Munroe, Ashley Horace Thorndike.

AT COMMENCEMENT.—Lincoln Robinson Gibbs, Lillian Wainright Hart, Theodore Sommers Henderson, Charles Stanton Hill, Nelson Chamberlin Hubbard, William Henry Kidd, Edward Loranus Rice, Everett Hallerton Scott.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor are conferred at graduation, based upon the general scholarship of the student throughout his whole course. Eighty-eight per cent. of the maximum standing entitles a student to the first grade of honor, and eighty-three per cent. to the second grade.*

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of Classics and of Mathematics at the end of the Sophomore or of the Junior year, and no student shall receive special honors at graduation in Greek, Latin, or Mathematics who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given as early as the first Monday in May of the year in which the candidate proposes to present himself for the special examination. The special regulations concerning the award of preliminary honors are as follows :—

Classics.—1. The candidate must pass, and maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and I., either II. or III., and VII. Latin.

*The scale of marking in practical use is such that the best students in any department receive about ninety-two per cent. of the absolute maximum.

2. He must also pass with distinction a special examination designed to test *(a)* his ability to translate Greek and Latin into English at sight, and *(b)* his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history. This special examination shall be held near the end of the academic year.

Mathematics.—1. The candidate must pass, and maintain an average standing of second grade, in the required courses in Mathematics, and in such elective courses, amounting to not less than six hours a week, as may be approved by the head of the department. Courses II., IV., and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

If a candidate for preliminary honors shall fail to attain an average standing of eighty-three per cent. in the studies prescribed in the preceding regulations, he may, nevertheless, receive the honor, provided his work in such of the prescribed courses as are pursued subsequent to Freshmen year, shall show, in the opinion of his instructors, a sufficient degree of improvement.

III. HONORS IN SPECIAL DEPARTMENTS.—Special honors are also awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History, and Political and Social Science; Philosophy; Mathematics; Physics; Chemistry; Biology; Geology.

The conditions upon which these special honors are awarded are as follows:—

(1) The candidate must apply to the officer of the department in which he proposes to take honors, not later than the first Monday in May in the Junior year.

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must maintain an average standing of eighty-three per cent. after the beginning of his Sophomore year; provided, however, that, if he maintain a standing of eighty-eight per cent. in such of these studies as he pursues in his Junior and Senior years, the standing of the Sophomore year may be ignored.

(3) No student shall receive special honors who shall fail to pass in any study of the last two years of the course.

(4) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading or investigation as shall be prescribed by the officer in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

(5) In addition to other requirements, every candidate for special honors shall be required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination shall be oral, and shall be conducted in the presence of a committee of the Faculty.

(6) No examination for special honors shall be given, and no thesis or other work in preparation for special honors shall be received, after the second Saturday preceding Commencement.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. All the courses in Latin, except one of the courses II. to VI., at the candidate's option.

2. Courses I. and II. in Greek; or the first two courses in German, the first two courses in French, and the course in Italian.

Greek.—All the courses in Greek.

German.—1. All the courses in German.

2. The first two courses in French.

3. The course in Anglo-Saxon.

Romance Languages.—1. Courses I., II., III., and IV. in French, and the course in Italian.

2. The first two courses in German.

English.—1. The required courses in English, including Composition.

2. One of the following groups of elective courses:—

(a.) Anglo-Saxon, Early English, and Courses I., IV., and either II. or III. in English Literature.

(b.) Anglo-Saxon, Early English, Course I. in English Literature, and Courses I. and II. in German.

(c.) The elective courses in English Literature, Anglo-Saxon, and Course I. in History.

History, and Political and Social Science.—All the courses, required

and elective, in History and Jurisprudence, and Economics and Social Science.

Philosophy.—(a.) General Philosophy.—1. The six courses in Philosophy.

2. The courses in Ethics, Theism, and Evidences of Christianity.

(b.) Psychology.—1. The six courses in Philosophy.

2. The course in Ethics.

3. The required course in Physiology, and one course in Practical Biology.

Mathematics.—1. The required courses in Mathematics and Astronomy.

2. Elective courses in Mathematics and Astronomy, amounting in the aggregate to fifteen hours a week.

3. The required course in Physics.

Physics.—1. The required course in Physics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises a week).

3. Any three of the following courses:—Mechanics and Sound, Light, Heat and Electricity, Applied Electricity, Mathematical Theory of Electricity, Analytical Mechanics.

4. The required course in Chemistry.

5. Either the course in Qualitative Analysis, or that in Elementary Calculus.

Chemistry.—1. All the courses in Chemistry, except Courses V. and VII.

2. The required course in Physics.

3. One elective course in Physics, or one course in Practical Biology.

Geology.—1. The required courses in Geology and Physiology.

2. The elective courses in Zoölogy, General Biology and Botany, and Physical Geography.

3. The course in Mineralogy, and Course II. in Geology.

4. Either Course IV. in Biology, or Course II. in Chemistry.

Biology.—1, 2. Same as for Geology.

3. Two years of Practical Biology.

4. Course II. in Chemistry.

The names of those students who take preliminary honors are announced on the Monday preceding Commencement.

The general and special honors are stated in the diploma; and the names of students who take such honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:—

GENERAL SCHOLARSHIP.—*First Grade.* Arthur Peyton Bryant, George Willets Davison, Lincoln Robinson Gibbs, Pedro Gillot y Fernandez, Edward Loranus Rice.

Second Grade. Lena Maud Adams, Wilbur Langdon Anderson, John Hendley Barnhart, Samuel James Allen Conner, Charles Myron Drew, George Mahon Eggleston, Theodore Sommers Henderson, William Henry Kidd, William Francis Little, Arthur Birdsey Miller, Charles Allison Miller, Jay William Pierce, John Stephenson Pullman, Egbert James Tamblyn, Alfred Ernest Taylor, Olin Freeman Tower.

SPECIAL DEPARTMENTS.—*Latin.*—Studies in the works of Catullus, and in Latin Epigraphy, with papers on The Influence of the Earlier Greek Lyric Poetry on Catullus, and on A Comparative Study of Codices *G* and *O* of Catullus.

To Lillian Wainright Hart.

Modern Languages.—Discussion of the Religious Side of Schiller's Dramatic Art.

To Jay William Pierce.

English Literature.—The Life and Work of Shakspere, with some Study of the Contemporary Drama.

With Essay on Shakspere's Ethics.

To Lincoln Robinson Gibbs.

With Essay on Shakspere's Apparent Indifference to Literary Fame.

To Clifford Ives Parshley.

Philosophy.—1. Theistic Philosophy, with thesis on The Personality of the World-Ground.

To Theodore Sommers Henderson.

2. Study of Berkeley, with thesis on the Development of the Berkeleyan System.

To William Dyson Tuckey.

Mathematics.—Problems in Analytical Mechanics.

To Lena Maud Adams, Wilbur Langdon Anderson, and Arthur Birdsey Miller.

Chemistry.—1. Presentation of twelve organic preparations, with thesis on the Analysis of a Specimen of Massive Beryl.

To Arthur Peyton Bryant.

2. Presentation of twenty-five organic preparations.

To Alfred Ernest Taylor.

Biology.—1. Studies in Classification, with Catalogue of Herbarium Specimens.

To John Hendley Barnhart.

2. Laboratory Technique, with preparation of specimens.
To Duncan Starr Johnson.
3. Bacteriology, with a series of experiments on bacteria in milk.
To Edward Loranus Rice.
Geology.—The Geology of the Connecticut Valley.
To Arthur Peyton Bryant and Edward Loranus Rice.

DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science will be conferred in accordance with the following regulations:—

1. The degree of Master of Arts may be conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. Said course of study shall be under the full direction of a Committee of the Faculty on Graduate Instruction, to be composed of three permanent members with the addition of the instructor in charge of each department in which the candidate shall pursue work. Evidence of the candidate's proficiency in the approved studies shall be given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations or processes, or by two or more of these methods combined, as the Committee may prescribe. All such tests of proficiency shall be under the direction of the Committee, and they shall report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who shall pass such additional examinations as the Committee may prescribe, the degree of Master of Arts may be conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts may also be conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations shall hold in the case of non-resident as in the case of resident students. The degree may also be conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate shall have spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science may be conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions that govern in the case of the degree of Master of Arts.

5. A fee of ten dollars shall be required from each graduate student upon promotion to the Master's degree.

In accordance with the above regulations, the Faculty have appointed Professors Van Vleck, Conn, and Merrill permanent members of the Committee on Graduate Instruction, and to them, or to the head of any one of the departments of instruction, may be addressed communications from prospective graduate students.

At the last Commencement, degrees were conferred as follows:—

THE DEGREE OF B. A. was conferred on:—Lena Maud Adams, Wilbur Langdon Anderson, Thomas Hanlon Atkinson, John Hendley Barnhart, David Jacobus Carlough, George William Carter, Samuel James Allen Conner, Alfred Cookman, Albert Lyon Crowell, George Willets Davison, Eva Dilks, George Mahon Eggleston, Herbert Charles Eldridge, Elbridge Sears Fernald, Frederic Hoole Floy, Lincoln Robinson Gibbs, Pedro Gillot y Fernandez, George Seymour Godard, Howard David Gordon, Ralph Morgan Grant, Lillian Wainright Hart, Archibald Clinton Harte, Theodore Sommers Henderson, Charles Stanton Hill, Arthur John Holden, Lovell James Honiss,

Nelson Chamberlin Hubbard, Henry Fowle Durant Kelsey, William Henry Kidd, August Kullman, William Francis Little, Arthur Birdsey Miller, Henry Winfield Millison, Hubert Barney Munson, Joseph White Naramore, Samuel Atkinson Noon, Clifford Ives Parshley, John Stephenson Pullman, Edward Loranus Rice, Everett Hallerton Scott, Jewsuke Shimata, Jonathan Hugh Slater, Alfred Ernest Taylor, Heber Ives Thayer, Gordon Lewis Thompson, Roger Everett Thompson, Olin Freeman Tower, William Dyson Tuckey, Samuel J. Watson.

THE DEGREE OF PH. B. was conferred on:—Charles Myron Drew, Harvey Carson Grumbine, Robert Henderson Guibord, Charles Allison Miller, Robert McDonald Moore, Jr., Jay William Pierce, Frederic Halsted Tackaberry, Egbert James Tamblyn.

THE DEGREE OF B. S. was conferred on:—Arthur Peyton Bryant, Frank Albert Galloway, William Henry Hall, Duncan Starr Johnson.

THE DEGREE OF M. S., on examination, was conferred on Charles Manning Child.

THE DEGREE OF M. A., on examination, was conferred on:—Stockton Axson, Henry Floy, William Emory Smyser, Tibbets Walker.

THE DEGREE OF M. A., *honoris causa*, was conferred on Rev. George Peck Eckman.

THE DEGREE OF D. D. was conferred on:—Rev. William Henry Burns, of Chicago, Ill.; Professor William Theophilus Davison, of Handworth College, Birmingham, England; Rev. Francis James Wagner, President of Morgan College, Baltimore, Md.

THE DEGREE OF LL. D. was conferred on:—Hon. Charles Candee Baldwin, Judge of the Circuit Court of the Eighth Judicial District of Ohio; Hon. Martin Augustine Knapp, Member of the Inter-State Commerce Commission.

OBITUARY RECORD.—Obituary notices of deceased graduates of the University are published annually. All persons who can supply information appropriate to the future editions of this Record, are urgently requested to communicate the same to Professor L. O. Kuhns.

ALUMNI RECORD.—Through the liberality of the late Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and

corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Librarian, W. J. James.

Information in regard to changes of residence or address of Alumni, or to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with the Librarian, W. J. James.

CALENDAR.

1892.

Sept. 29, Thursday—First Term commenced.
Nov. 24—Nov. 26,—Thanksgiving Recess.
Dec. 23, Friday—First Term will close.

1893. CHRISTMAS RECESS.

Jan. 4, Wednesday—Second Term will commence.
Jan. 26, Thursday—Day of Prayer for Colleges.
Feb. 13—Feb. 18,—Mid-year Examinations.
March 29, Wednesday—Second Term will close.

EASTER RECESS.

April 4, Tuesday—Third Term will commence.
April 8, Saturday—Last day for presenting Junior Exhibition Essays.
April 10, Monday—Last day for presenting Olin Prize Essays.
April 20, Thursday—Junior Exhibition.
May 1, Monday—Last day for presenting applications for Preliminary and Special Honors.
May 15, Monday—Last day for presenting Joseph D. Weeks Prize Essays.
June 6, Tuesday—Senior Examination will commence.
June 8, Thursday—Prize Debate and Declamation.
June 20, Tuesday—Annual Examination will commence.
June 20, Tuesday—Last day for presenting Rich Prize Essays.
June 23, Friday—Prize Declamation.
June 25, Sunday morning—Baccalaureate Sermon.
June 25, Sunday Evening—University Sermon.
June 26, Monday—Class Day.
June 27, Tuesday—Meeting of the Board of Trustees.
June 27, Tuesday—Business Meeting and Anniversary of the Alumni Association.
June 27, Tuesday—Reunion of Classes of 1843, '68, '78, '83, '86, '89, '90.
June 27, Tuesday—Anniversaries of the Literary Societies.
June 28, The last Wednesday of June—COMMENCEMENT.
June 29, Thursday—Examination of candidates for admission will commence.

VACATION OF THIRTEEN WEEKS.

Sept. 26, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 27, Wednesday—Examination of candidates for admission will commence.
Sept. 28, Thursday—First Term will commence.
Dec. 22, Friday—First Term will close.

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CALENDAR, 1893

JANUARY

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1894

JANUARY

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FEBRUARY

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MARCH

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APRIL

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ANNUAL CATALOGUE

—OF—

Wesleyan University.

1893-94.

MIDDLETOWN, CONN.:
THE MIDDLETOWN TRIBUNE PRINT.
1893.

CATALOGUE

Compliments of

President Raymond.

Wesleyan University,

1893-94.

MIDDLETOWN, CONN.
M. DCCC. XCIII.

CATALOGUE

—OF—

Wesleyan University,

1893-94.

MIDDLETOWN, CONN.
M. DCCC. XCIII.

TRIBUNE PRINT,
MIDDLETOWN.

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§ Charles Henry Colt,	*Winsted.*	A. Δ. Φ. *House.*
§ Mary Eva Cramer,	*Portland.*	*274 High St.*
§ William Butler Davis,	*Middletown.*	*182 Washington St.*
Charles Wesley Delano,	*Worcester, Mass.*	A. Δ. Φ. *House.*
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Robert Moses French,	*Kingston, N. H.*	X. Ψ. *Lodge.*
Fredric Worthen Frost,	*Newport, N. H.*	Ψ. Υ. *House.*
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James Pullman,	*Bridgeport.*	37 N. C.
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Edmund David Searls,	*Chelsea, Me.*	60 N. C.
§ Edgar Benton Singer,	*Mountain Top, Pa.*	*306 William St.*
* † Freeman Harris Smith,	*Watertown.*	38 N. C.
Vernon Benjamin Swett,	*South Paris, Me.*	48 N. C.
Joseph Willard Thomas,	*North Gorham, Me.*	17 N. C.

* DECEASED.

NAMES.	RESIDENCES.	ROOMS.
George Dallas Thompson,	*Manasquan, N. J.*	B. O. H. *House.*
† George Leavitt Tirrell,	*Norwich.*	27 N. C.
William Braman Tower,	*Worcester, Mass.*	44 N. C.
Henry Deiderich Trinkaus,	*Bridgeport.*	33 N. C.
Wilbur Abbott Welch,	*New York, N. Y.*	Ψ. Υ. *House.*
Renwick White,	*Highlands, N. C.*	49 N. C.
§ Margaret Neff Williams,	*New Britain.*	*274 High St.*
Arthur Harmon Winn,	*Albany, N. Y.*	B. O. H. *House.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Mary Abbie Adams,	*West Thompson.*	*238 High St.*
Edith Jefferson Andrus,	*Yonkers, N. Y.*	*274 High St.*
Alexander Montague Atherton,	*Honolulu, H. I.*	53 N. C.
Alfred George Austin,	*Newbury, Vt.*	36 N. C.
Eva Viola Austin,	*Yonkers, N. Y.*	*274 High St.*
Charles Thomas Beers,	*Catskill, N. Y.*	8 N. C.
§ Manning Blackstone Bennett,	*Potsdam, N. Y.*	52 N. C.
Reuben Nelson Bennett,	*Wilkes Barre, Pa.*	Ψ. Υ. *House.*
Fred Jennerich Bohlmann,	*Hobart, N. Y.*	57 N. C.
§ George Alexander Bridge,	*Hazardville.*	35 N. C.
§ Carrie Tappan Brown,	*New Hartford.*	*274 High St.*
Charles Harvey Brown,	*Cohoes, N. Y.*	58 N. C.
Burton Hoag Brownell,	*Tomhannock, N. Y.*	62 N. C.
§ Mary Grace Bunnell,	*Bridgeport.*	*238 High St.*
§ Frank Wright Burr,	*Middletown.*	*Burr Ave.*
Davison Augustus Chandler,	*Paterson, N. J.*	X. Ψ. *Lodge.*
§ William Huse Chapman,	*Middletown.*	*86 College St.*
§ Jane Coughlin,	*Bridgeport.*	*238 High St.*
§ Newland Evan Davis,	*Middletown.*	*472 High St.*
Howard George Dibble,	*Green Island, N. Y.*	*246 High St.*
§ Lizzie Emma Dufford,	*Paterson, N. J.*	*238 High St.*
Sidney Bruce Eggleston,	*New York, N. Y.*	39 N. C.

NAMES.	RESIDENCES.	ROOMS.
George Evans,	*Wanamie, Pa.*	*306 Wilham St.*
§ Albert Linwood Fickett,	*Auburn, Me.*	14 N. C.
Joseph Wright Frazier,	*Plattsburgh, N. Y.*	*88 Wyllys Ave.*
§ William Gill Giffin,	*Brooklyn, N. Y.*	52 N. C.
§ Albert Frank Gilman,	*Winthrop, Me.*	17 N. C.
John Gowdy,	*Lawrence, Mass.*	63 N. C.
Bernard Ferriss Greenslet,	*Glens Falls, N. Y.*	53 N. C.
§ William Gano Guernsey,	*Bangall, N. Y.*	*256 William St.*
† Charles Thomas Guildford,	*West Winsted.*	42 N. C.
§ Alice Baker Guy,	*Middletown.*	*South Farms.*
Emmie Bailey Harris,	*Fitchburg, Mass.*	*274 High St.*
† Olivia Howell Hatfield,	*Pittston, Pa.*	*274 High St.*
† Whitney Myron Hubbard,	*Greenport, N. Y.*	*South Farms.*
Chester Chaffee Kent,	*Meriden.*	61 N. C.
§ William Henry McCauley,	*Le Raysville, Pa.*	*306 William St.*
Agnes Geneva McGlynn,	*Meriden.*	*238 High St.*
William Harry Schock McMorris,	*Harrisburg, Pa.*	*169 College St.*
Augustus Hamlin Mandell, Jr.,	*New Bedford, Mass.*	63 N. C.
Clarence Harry Martin,	*Bradford, Vt.*	9 N. C.
Thomas Robinson Moore,	*Felton, Del.*	47 N. C.
Francis Reid North,	*Montclair, N. J.*	*31 College Place.*
§ Stephen Allen Norton,	*Kent's Hill, Me.*	4 N. C.
Samuel Rezin Wallis Parrish,	*White Hall, Md.*	51 N. C.
Francis Davenport Pringle,	*Plymouth, Pa.*	*306 William St.*
William Barton Pruner,	*Wilkes Barre, Pa.*	19 N. C.
§ Charles Paine Reed,	*Amenia Union, N. Y.*	35 N. C.
Charles Landon Rockwell,	*New York, N. Y.*	*173 High Street.*
Frederick William Roe,	*Wolcott, N. Y.*	*197 High St.*
Julian Mills Round,	*Elmira, N. Y.*	*197 High St.*
† Clarence Arthur Sanford,	*Meriden.*	51 N. C.
§ Edward Willis Simons,	*Port Chester, N. Y.*	64 N. C.
Alvenza Ingham Smith,	*Winthrop, Me.*	25 N. C.
§ Minnie Rose Snow,	*East Hampton.*	*274 High St.*
John Lewis Sparklin,	*Fowling Creek, Md.*	47 N. C.
§ Elizabeth Cookman Stevens,	*White Plains, N. Y.*	*274 High St.*
Cornelia Haddon Stone,	*Middletown.*	*96 William St.*
William Eli Davis Stone,	*Worcester, Mass.*	9 N. C.
Ernest William Stratmann,	*Brooklyn, N. Y.*	*169 College St.*

NAMES.	RESIDENCES.	ROOMS.
Evan Lenn Tamblyn,	*Hackettstown, N. J.*	*171 High St.*
Mary Grace Thompson,	*Meriden.*	*238 High St.*
Robert LeRoy Thompson,	*Fort Ann, N. Y.*	62 N. C.
William Alexander Thompson,	*Meriden.*	50 N. C.
Howard Van Deusen,	*Tranquility, N. J.*	64 N. C.
Mary Lawton Westgate,	*Middletown.*	*178 Church St.*
Bessie Williams,	*New Britain.*	*274 High St.*
§ George Albert Williams,	*Everett, Pa.*	*171 High St.*
Leon Kurtz Willman,	*Pottstown, Pa.*	*246 High St.*
Walter Whortle Wilsey,	*Middletown.*	*72 College St.*
§ Robert Paddock Wilson,	*Middletown.*	30 N. C.
† Paul Livingston Woolston,	*Ocean Grove, N. J.*	59 N. C.
§ Carrie May Yale,	*Meriden.*	*238 High St.*
Burton Myron Yaw,	*West Berkshire, Vt.*	14 N. C.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Jessie Worthen Hall Ames,	*Cromwell.*	*274 High St.*
Francis Joseph Batchelder,	*Middletown.*	*58 Wyllys Ave.*
Francis Sawyer Douglass,	*Plymouth, Mass.*	45 N. C.
Christine Kellogg Glover,	*Middletown.*	*306 William St.*
Henry Ingraham Harriman,	*New York, N. Y.*	17 O. H.
Mary Frances Hibbard,	*New Britain.*	*274 High St.*
Annette Burke Richmond,	*Norwich.*	*274 High St.*
Winsor Whipple Warriner,	*Meriden.*	50 N. C.

SUMMARY.

GRADUATE STUDENTS,	15
SENIORS,	52
JUNIORS,	55
SOPHOMORES,	69
FRESHMEN,	74
SPECIAL STUDENTS,	8
TOTAL,	273

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year, and must be continued during the second year unless the student elects a very considerable proportion of his studies from the departments of Mathematics and Physics. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study

in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.

TERMS OF ADMISSION.*

CLASSICAL COURSE.

Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN.—1. Latin Grammar, including Prosody.

2. Cæsar,—Gallic War, books I.–IV.

3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.

4. Vergil,—Eclogues; Æneid, books I.–VI.

5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.

6. Translation into Latin of simple English sentences and easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4 equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry nor *vice versa*.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always *trilled*, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *back-hire*, *haphazard*, *boat-hook*; other consonants as in English.

*For prize for excellence in the studies preparatory to admission see "Ayres Prize".

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

GREEK. 1. Greek Grammar,—Hadley-Allen's, or Goodwin's.

2. Xenophon,—four books of the Anabasis.

3. Homer,—three books of the Iliad.

4. Translation at sight of one or more passages from Xenophon.

5. Translation of simple English sentences into Greek.

HISTORY AND GEOGRAPHY. 1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.

3. Ancient Geography.

The following books are recommended as the basis of instruction in History and Geography:—

1. Allen's Short History of the Roman People (Part II. of Myers and Allen's Ancient History) pp. 1-275.

2. Myers' Eastern Nations and Greece (Part I. of Myers' and of Myers and Allen's Ancient History) beginning with Section II.

3. Tozer's Primer of Ancient Geography.

Familiarity with map drawing is also especially desirable.

MATHEMATICS. 1. Algebra, through Progressions, including the use of the Binomial Formula for positive integral exponents,—so much, for example, as is contained in Wentworth's Elements of Algebra, or in the first seven books of Newcomb's Algebra for Colleges.

2. Plane Geometry,—the first five books of Chauvenet's Geometry, or their equivalent.

ENGLISH. 1. Each candidate will be required to write a short English essay upon a subject announced at the time of the examination. This essay will be expected to show a general familiarity with the works mentioned below, and will be examined with especial attention to accuracy of grammar, spelling, and punctuation. In 1894, subjects for this essay will be taken from two or more of the following works, candidates being required, however, to be prepared on all of them:—Shakspere's Julius Cæsar and Merchant of Venice, Scott's Lady of the Lake, Arnold's Sohrab and Rustum, the Sir Roger de Coverley Papers in the Spectator, Macaulay's second Essay on the Earl of Chatham, Emerson's American Scholar, Irving's Sketch Book, Scott's Abbot, Dickens' David Copperfield.

2. Each candidate will be required to criticise specimens of English given him at the time of the examination.

In 1895, the subjects for the essay above mentioned will be taken from the following:—Shakspere's Merchant of Venice and Twelfth Night, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, the Sir Roger de Coverley Papers in the Spectator, Macaulay's Essay on Milton and Essay on Addison, Webster's first Bunker Hill Oration, Irving's Sketch Book, Scott's Abbot.

In 1896, they will be taken from the following:—Shakspere's Merchant of Venice and Midsummer Night's Dream, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas, Longfellow's Evangeline, Macaulay's Essay on Milton, Webster's first Bunker Hill Oration, DeFoe's History of the Plague in London, Irving's Tales of a Traveller, Scott's Woodstock, George Eliot's Silas Marner.

In 1897, they will be taken from the following:—Shakspere's Merchant of Venice and As You Like It, Scott's Marmion, Longfellow's Evangeline, Burke's Speech on Conciliation with America, Macaulay's Life of Samuel Johnson, De Foe's History of the Plague in London, Irving's Tales of a Traveller, Hawthorne's Twice Told Tales, George Eliot's Silas Marner.

Teachers of Greek and Latin in preparatory schools are urged to insist upon the use of simple and idiomatic English in translation.

LATIN-SCIENTIFIC COURSE.

Candidates for the Latin-Scientific Course will be examined in the following books and subjects:—

LATIN. Same requirements as for the Classical Course.

HISTORY AND GEOGRAPHY. Same requirements as for the Classical Course, including Greek History and Geography.

MATHEMATICS. Same requirements as for the Classical Course.

ENGLISH. Same requirements as for the Classical Course.

FRENCH OR GERMAN, at the option of the candidate. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions. The work is intended to be substantially equivalent to Course I. in French or German as outlined below, page 33.

SCIENTIFIC COURSE.

Candidates for the Scientific Course have the option of the three following series of requirements:—

A.

MATHEMATICS. Same requirements as for the Classical Course, with the addition of the following subjects:—

1. Solid Geometry,—the last four books of Chauvenet's Geometry, or their equivalent.

2. Plane and Spherical Trigonometry, with the use of Logarithmic and Trigonometric Tables.

3. Analytical Geometry, including the straight line, the circle, and the elementary properties of the conic sections.

ENGLISH. Same requirements as for the Classical Course.

FRENCH OR GERMAN, at the option of the candidate. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions. The work is intended to be substantially equivalent to Course I. in French or German, as outlined below, page 33.

NATURAL SCIENCE. Any one of the three following courses, at the option of the candidate:—

I. *Botany and Physical Geography.* 1. In Botany the candidate must pass an examination in Gray's Lessons in Botany, and must show ability to dissect flowers of ordinary difficulty, and to write descriptions of them.

2. In Physical Geography, such a knowledge of the subject will be required as can be gained from the study of Geikie's Elementary Lessons.

II. *Chemistry.* 1. Such a knowledge of the subject will be required as can be gained from Eliot and Storer's Manual of Chemistry, omitting chapters XV.-XVIII. inclusive, or from Remsen's Chemistry, Elementary Course.

2. The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

III. *Physics.* 1. Such a knowledge of the subject will be required as can be gained from Gage's Introduction to Physical Science, or Avery's First Principles of Natural Philosophy.

2. The candidate must also have performed a series of at least thirty experiments involving careful measurements, and must present his original note-book, containing full records of the experiments,

and certified to by his instructor. The experiments may be selected from such manuals as Worthington's Physical Laboratory Practice or Gage's Physical Laboratory Manual.

B.

MATHEMATICS. Same requirements as for the Classical Course.

ENGLISH. Same requirements as for the Classical Course.

FRENCH AND GERMAN. The equivalent of Course I. in both French and German, and of Course II. in either French or German, at the option of the candidate. (see pages 33 and 34.)

NATURAL SCIENCE. Same as specified under A.

C.

MATHEMATICS. Same requirements as for the Classical Course.

ENGLISH. Same requirements as for the Classical Course.

FRENCH OR GERMAN. Same as specified under A.

NATURAL SCIENCE. *All three* of the courses specified under A.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe.

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING. All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

PRELIMINARY EXAMINATIONS. A student who has accomplished half or more of the preparatory course may be examined on that part and receive credit therefor a year or more in advance of the time at which he expects to enter college. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

DATE AND PLACE OF EXAMINATIONS. The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College

at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. But, if no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE. Certificates covering the major part of the above requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. Detailed information concerning admission by certificate may be obtained on application to the President, or the Secretary of the Faculty; but no certificates are received covering the entrance requirements in Latin Prose Composition, Sight Reading of Latin (both prose and poetry), Greek Prose Composition, Sight Reading of Greek, French, German, Natural Science.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

LATIN.

PROFESSOR MERRILL; MR. NICOLSON.

I. LIVY,—Books 1 and 2. *Four times a week (first half-year).* MR. NICOLSON.

PLAUTUS,—Trinummus; TERENCE,—Phormio; CICERO,—De Senectute. *Four times a week (second half-year).* MR. NICOLSON.

Exercises in sight translation and prose composition throughout the year.

Course I. is required of Classical and Latin-Scientific Freshmen.

II. HORACE,—Odes and Epodes. *Twice a week (first half-year).* MR. NICOLSON.

CICERO,—Selected Letters. *Twice a week (second half-year).* PROFESSOR MERRILL.

III. PLINY THE YOUNGER,—Selected Letters. *Twice a week (first half-year).* PROFESSOR MERRILL.

TACITUS,—Agricola and Germania. *Twice a week (second half-year).* MR. NICOLSON.

Courses II. and III. are elective for those who have taken Course I., and prospective candidates for preliminary honors in Classics are advised to elect both these courses in the Sophomore year.

IV. LUCRETIUS,—Books 1 and 3, and selections from other books. *Twice a week (first half-year).* MR. NICOLSON.

CATULLUS. *Twice a week (second half-year).* PROFESSOR MERRILL.

V. TACITUS,—Annals, Books 1, 2, and 4. *Twice a week (first half-year).* PROFESSOR MERRILL.

OVID, TIBULLUS, PROPERTIUS,—Selected Elegies. *Twice a week (second half-year).* MR. NICOLSON.

Course V. alternates in successive years with Courses IV. and VI., and is omitted the present year.

VI. A course in Roman Satire. ENNIUS, LUCILIUS, VARRO, HORACE,—Selections. *Twice a week (first half-year).* PROFESSOR MERRILL.

PETRONIUS, PERSIUS, SENECA, JUVENAL,—Selections. *Twice a week (second half-year).* MR. NICOLSON.

Courses IV.–VI. are elective for those who have taken Courses I. and either II. or III.

VII. LATIN PROSE COMPOSITION. A course in advanced work, with practical exercises and demonstrations, designed to illustrate the theory of Latin rhetoric. *Once a week.* MR. NICOLSON.

Course VII. is elective for those who have taken Course I., and prospective candidates for preliminary honors in Classics are advised to elect it in the Sophomore year.

VIII. LATIN PROSE COMPOSITION. A course in continuation of Course VII., involving original composition in Latin on historical, descriptive, and argumentative themes. *Once a week.* PROFESSOR MERRILL.

Course VIII. is elective for those who have taken Course VII. It is omitted the present year, but will be given in 1894-95.

IX. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Once a week.* PROFESSOR MERRILL.

X. ROMAN PRIVATE AND SOCIAL INSTITUTIONS. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Once a week.* PROFESSOR MERRILL.

Courses IX. and X. are elective for all students. They are given in alternate years, the latter being given this year.

XI. During the second half of alternate years Professor Merrill conducts a series of ten conferences of an hour each on the History and Methods of Classical Study and Teaching. These conferences are open, on application to the leader, to all persons interested, but are designed especially for those students in the advanced courses who are intending to teach Latin.

Course XI. is omitted the present year.

The following courses are intended primarily for graduate students, but Seniors who are candidates for special honors in Latin at graduation may be admitted to any of them on special application to the instructor.

XII. LATIN SEMINARY. The subject for the present year is the life and works of Catullus. Each exercise occupies two hours. *Twice a week.* PROFESSOR MERRILL.

XIII. METHODS OF RESEARCH. A course of practice in the investigation of simple problems in Roman history and literature, and in the preparation of papers in Latin embodying the results of the research. PROFESSOR MERRILL.

XIV. LATIN EPIGRAPHY. A course for beginners, based upon Cagnat's Cours d'Épigraphie Latine, Rushforth's Latin Historical Inscriptions, and Dessau's Inscriptiones Latinæ Selectæ, with constant reference to other works. PROFESSOR MERRILL.

XV. BOOK AND JOURNAL CLUB, for the tracing of current progress in Latin literature and Roman archaeology. PROFESSOR MERRILL.

The time to be given to each of Courses XIII.–XV. will be determined on consultation with the instructor.

For the successful prosecution of Courses II.–VI., IX., and X., an ability to read German prose on philological subjects is especially desirable, and for Courses XII.–XV. it is necessary. Students, therefore, who look forward to the study of Latin beyond the required course, and have on admission to college no acquaintance with German, should elect German in the Freshman year.

GREEK.

PROFESSOR VAN BENSCHOTEN; DR. GOODWIN.

I. HERODOTUS. Special attention given to Morphology and the derivation and composition of words. Greek History. *Four times a week (first term).* DR. GOODWIN.

THUCYDIDES. Syntax, with Composition. *Four times a week (second term).* DR. GOODWIN.

HOMER. Prosody; Studies in Greek language and life; The Homeric question. *Four times a week (third term).* DR. GOODWIN.

Course I. is required of Classical Freshmen.

II. AESCHINES AND DEMOSTHENES, Orations on the Crown. A course of collateral reading is required, covering Butcher's Demosthenes, Jebb's Primer of Greek Literature, and portions of Jebb's Greek Orators. *Twice a week (first term).* DR. GOODWIN.

PLATO. Apologia, Euthryphro, Phædo. Lectures on Greek philosophy. The collateral reading includes introductory chapters of Grote's Plato, and Zeller's Outlines of Greek Philosophy. *Twice a week (second term).* DR. GOODWIN.

AESCHYLUS AND SOPHOCLES. Prometheus Bound; Antigone. Lectures on Greek drama, with illustrations. The collateral reading includes Jebb's Primer of Greek Literature, portions of Jevons' History of Greek Literature, and Mahaffy's History of Greek Literature, and Haigh's Attic Theatre. *Twice a week (third term).* DR. GOODWIN.

Course II. is elective for those who have taken Course I.

III. THE LIFE AND LANGUAGE OF THE GREEKS. *Once a week.* PROFESSOR VAN BENSCHOTEN.

Course III. is elective for those who have taken Course I. and who take or have taken Course II.

IV. GREEK COMEDY. The Frogs and the Acharnians of Aristophanes. GREEK TRAGEDY. Aeschylus, Sophocles, Euripides. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

V. GREEK PHILOSOPHY. The Clouds of Aristophanes; Aristotle's Poetics; Xenophon; Euripides. One meeting each week will be devoted to special studies in Greek life, literature, and language. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

Course V. is elective for those who have taken Courses I. and II.

Courses IV. and V. are given in alternate years. Course V. is given the present year.

VI. BIBLICAL GREEK. Epistles. The text used will be Scrivener's New Testament in Greek, with the Revisers' Readings. Collateral studies; texts and translations. *Twice a week.* PROFESSOR VAN BENSCHOTEN.

Course VI. is elective for those who have taken Courses I. and II.

VII. LYRIC POETRY. PINDAR. *Three times a week (first term).* PROFESSOR VAN BENSCHOTEN.

LUCIAN. *Three times a week (second term).* PROFESSOR VAN BENSCHOTEN.

PAUSANIAS; NEO-HELLENIC,—with collateral work on the geography and topography of Greece and on epigraphy. *Three times a week (third term).* PROFESSOR VAN BENSCHOTEN.

One meeting each week will be devoted to special advanced studies of the nature indicated under Course V.

Course VII. is elective for those who have taken either Course IV. or Course V.

GERMAN.

MR. A. W. JAMES.

I. Otis' Elementary German, Stern's Studien und Plaudereien, Grimm's Maerchen, and other easy books are read. In this course there is systematic translation of English into German. Translation into English is practiced only to a limited extent. The exercises are so conducted that the student learns to take thought directly from the German without going through the mental process of translating. *Three times a week.*

II. Lessing's Minna von Barnhelm and Schiller's Wilhelm Tell are read in German, with occasional translation into English. Later in the year there are exercises in German composition. For sight reading, and also for exercises in German conversation, Storme's Easy German Reading is used. *Three times a week.*

Course II. is elective for those who have taken Course I.

III. Lessing's Nathan der Weise and Goethe's Faust are read. Toward the end of the year informal lectures in German on a few authors of the eighteenth century are given by the instructor. *Twice a week.*

Course III. is elective for those who have taken Course II.

Considerable attention is paid to conversation in all the courses.

Additional rules concerning the election of courses in German are given below, at the end of the report of the Department of Romance Languages.

Students in the Classical and Latin-Scientific Courses, who look forward to the study of Latin and Greek beyond the required courses, and have no previous acquaintance with German, should elect German in the Freshman year.

ROMANCE LANGUAGES.

PROFESSOR KEHNS.

I. FRENCH. Whitney's Practical French Grammar, Part I. De Maistre,—La Jeune Sibérienne, Le Lépreux de la Cité d'Aoste; Erckmann-Chatrian,—Waterloo; Victor Hugo,—Bug Jargal, Quatre-vingt-treize; Jules Verne,—M. Strogoff. Part of the above books are read at sight. There is also personal drill in pronunciation. *Three times a week.*

II. FRENCH. Whitney's Grammar, Part II, and Roulier's Second Book of French Composition. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. Books read this year are Balzac,—Le Curé de Tours; Pierre Loti,—Pêcheur d'Islande; Beaumarchais,—Le Barbier de Seville; Lamartine,—Jeanne d'Arc; Corneille,—Polyeucte; Racine,—Andromaque; Molière,—Le Misanthrope; Halèvy,—L'Abbé Constantin; Daudet,—Tartarin de Tarascon. *Twice a week.*

III. FRENCH. French conversation. Bercy,—Le Français Pratique, French Fairy Tales. During the year informal lectures are given in French. *Once a week.*

Course III. is elective for Sophomores.

IV. FRENCH. French literature in the seventeenth, eighteenth, and nineteenth centuries. The following books are read, but not translated—questions on the subject matter being put and answered in French:—Corneille,—Le Cid; Racine,—Phèdre; Molière,—Le Tartuffe; Rousseau,—Le Contrat Social; Voltaire,—Mèrope; Chateaubriand,—Atala; Lamartine,—selections; Victor Hugo,—Hernani, and lyrical poetry; Musset,—comedies, stories, and poetry; Balzac,—Eugénie Grandet.

There is at each recitation translation of English into French. Further, frequent lectures are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries.

In addition, each member of the class must, for each half-year, select one of the following courses of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of the author selected.

First half-year:—

1. Corneille,—Horace, Polyeucte, Le Menteur, Rodogune.

2. Racine,—Athalie, Les Plaideurs, Bérénice, Mithridate.

3. Racine,—Bajazet, Iphigénie, Britannicus, Esther; Sophocles,—Oedipus Tyrannus.

4. Molière,—Les Précieuses Ridicules, L'École des Femmes, Le Médecin malgré lui, L'Avare.

5. Molière,—Le Bourgeois Gentilhomme, Le Malade Imaginaire, George Dandin; Shakspere,—As You Like It.

6. La Fontaine,—first eight books of Fables; Goethe,—Reineke Fuchs.

7. Boileau,—Le Lutrin; Malherbe,—Poésies.
8. Voltaire,—Siècle de Louis XIV.
9. Rousseau,—La Nouvelle Heloise.

Second half-year:—

1. St. Pierre,—Paul et Virginie; Mme. de Stael,—L'Allemagne.
2. Chateaubriand,—René, Le dernier Abencerage, selections from Le Génie du Christianisme.
3. Lamartine,—Jocelyn.
4. Victor Hugo,—Dramas.
5. Victor Hugo,—Lyric and Epic Poetry.
6. Victor Hugo,—Novels.
7. Musset,—Selections.
8. Balzac,—Le Père Goriot, César Birotteau.
9. George Sand,—Jacques, La Mare au Diable, La petite Fadette.

Twice (counting as three times) a week.

V. OLD FRENCH. 1. Clédat's Morceaux Choisis des Auteurs Français du Moyen Age; Clédat's Grammaire Elémentaire de le Vieille Langue Française. Exercises in Old French etymology, based on La Vie de Saint Alexis.

Each member of the class must select one of the following subjects for investigation, and write a thesis on the results of his study:—

1. Le Roman de la Rose, and its influence on Chaucer.
2. Aymeri de Narbonne and the Geste de Guillaume.
3. Chanson de Roland and the Geste du Roi. *Once (counting as twice) a week.*

Course V. is not given this year.

VI. LITERATURE OF THE RENAISSANCE. Darmesteter and Hatzfeld,—Le Seizième Siècle en France. Lectures and private readings in Rabelais, Montaigne, Marot, Ronsard, Garnier. *Once (counting as twice) a week.*

GRADUATE INSTRUCTION. Graduate work is being done this year in the Chanson de Roland.

VII. ITALIAN. Italian Principia, I. De Amicis,—Gli Amici di Collegio, Cuore; Manzoni,—I promessi Sposi. In addition to the regular work by the class in translating modern prose, the instructor will translate and interpret to the class the Inferno and Purgatorio of Dante, the last half hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rosetti's Shadow of Dante. *Twice a week.*

Course VII. is elective for Sophomores.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Candidates for the Latin-Scientific and Scientific Courses are examined at entrance to test their ability to read at sight easy passages in French or German, as they may elect. Students in the Latin-Scientific Course are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to take the equivalent of Courses I. and II. in French, and I. and II. in German. Such of these courses as they have not pursued before entering college, they must take as speedily as possible after entering. Aside from these restrictions, each course in either language is elective for those who have previously taken the preceding course or courses in the same language, except that III. French may be elected in the same year with II. French.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's Primer of English Literature, with lectures. *Twice a week.*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspere's Hamlet; selections from Pope's Satires. *Once a week.*

3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose either one of the courses in Winchester's Five Short Courses of Reading in English Literature. These courses may be briefly outlined as follows:—

(1.) 1559-1674. Marlowe's Faustus and Greene's Friar Bacon; Shakspere's Henry IV., As You Like It, Antony and Cleopatra, Winter's Tale, and ten sonnets; Bacon's Essays—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost (Book I.), Samson Agonistes.

(2.) 1660-1745. Dryden's Absalom and Achitophel; Addison's Essays—selections; Steele's Essays—selections; Swift's Tale of a

Tub, Argument against Abolishing Christianity, Journal to Stella (I.–VII.).

Johnson's Lives of Dryden, Swift, Pope; Thackeray's Lectures on the English Humourists.

(3.) 1745–1789. Gray's Elegy in a Country Churchyard, Ode on a Distant Prospect of Eton College; Goldsmith's Deserted Village, Retaliation, and Vicar of Wakefield; Johnson's Vanity of Human Wishes, Rasselas; Burke's two American Speeches, Reflections on the Revolution in France—the first half, Letter to a Noble Lord; Cowper's Task—Book I.; Burns—selected poems.

Leslie Stephen's Life of Johnson, Dobson's Life of Goldsmith, Morley's Life of Burke.

(4.) 1789–1832. Wordsworth—selected poems; Coleridge's Ancient Mariner, Love, Biographia Literaria—selected chapters; De Quincey's Recollections of Coleridge and Wordsworth, The Affliction of Childhood, The English Mail Coach; Lamb's Essays of Elia —selections; Byron's Childe Harold (Canto IV.); Shelley—selected poems; Keats—selected poems.

(5.) 1832–1880. Carlyle's Sartor Resartus (Book II., and Book III., chapter 8), Essay on Burns; Ruskin's Sesame and Lilies, Fors Clavigera (Letter V.); Matthew Arnold's Culture and Anarchy (chapter I.), selected poems; Browning—selected poems; Tennyson —selected poems.

Course I. is elective for Juniors.

II. ENGLISH LITERATURE of the Victorian Period, 1832–1880. Carlyle, Ruskin, Matthew Arnold, Tennyson, and Browning. Critical reading and discussion; lectures. *Twice (counting as three times) a week.*

III. ENGLISH LITERATURE of the Period of Queen Anne, 1700–1745. DeFoe, Steele, Addison, Swift, Pope. Critical reading and discussion; lectures. *Twice (counting as three times) a week.*

Courses II. and III. are elective (with some restrictions) for those who have taken Course I. Course III. will be omitted in 1894–95. Course II. is omitted the present year.

IV. THE ELEMENTS OF LITERARY CRITICISM. A course of lectures upon the essential elements and the various forms of literature; with practical exercises in the application of critical principles. *Once a week.*

Course IV. is elective for those who have taken Course I.

V. THE HISTORY OF ENGLISH LITERARY CRITICISM. An outline study of the growth and development of English criticism, and of the changes in critical standards from the sixteenth to the nineteenth century.

Sidney's Defense of Poesie, Dryden's Prefaces and Essay on Dramatic Poetry, Addison's Papers on Paradise Lost, selections from the critical writings of Johnson, and from the Reviewers of the beginning of this century, will be studied as representing various phases of English critical opinion. *Once a week.*

VI. THE POETRY OF TENNYSON AND BROWNING. Critical reading, discussion, lectures. *Once a week.*

Courses V. and VI. are open to graduate students only.

VII. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior must write an argument for debate before his class, and either four essays or two public orations. All written work receives the personal criticism of the Professor, and the orations are also rehearsed before the Professor of Elocution.

ENGLISH LANGUAGE.

PROFESSOR MEAD.

I. A. ENGLISH LANGUAGE. General History of the English Language, with lectures and illustrative examples from Anglo-Saxon.

The class work is based upon Champneys' History of English and the Gospel of Saint Luke in Anglo-Saxon (edited by Bright). *Once a week.*

I. B. ENGLISH LITERATURE. Selected essays of Macaulay, with extracts from the authors discussed in the Essays, and collateral readings in English History. *Once a week.*

Freshmen are required to take either Course I. A., or Course I. B.

II. RHETORIC. Hill's Principles of Rhetoric. The members of the class are required to write—in addition to their regular essays—weekly exercises illustrating and applying the principles laid down in the text-book. These exercises are discussed and criticised by the class. As a study in modern prose style, the class read and discuss in the class-room the essays by Macaulay and Carlyle on Croker's edition of Boswell's Life of Johnson, and analyse the addresses in Baker's Specimens of Argumentation. *Three times a week (first half-year).*

Course II. is required of Sophomores.

III. ENGLISH COMPOSITION. A. Each member of the Freshman class is required to present frequent written exercises, based upon the collateral reading in Course I. A. or Course I. B.

B. Sophomores write six essays during the year on subjects approved by the Professor. Each member of the class meets the Professor privately for individual criticism.

C. Juniors write on subjects of their own selection, and choose one of the two following courses:—Course I., consisting of five general, and two departmental essays; Course II., consisting of two general, and four departmental essays. The departmental essays must be written on subjects related to some department of college work, and the topics submitted in writing to the Professor for approval. Appointments for individual criticism are made for each member of the class.

IV. ANGLO-SAXON. 1. Bright's Anglo-Saxon Reader, with an introductory course in Sweet's Anglo-Saxon Primer. Sievers' Old English Grammar is used for reference. Skeat's English Etymology is taken as the basis for studies in derivation. For exercises in sight translation, the Anglo-Saxon Chronicle is read in class. As collateral reading, Freeman's Old English History and Gardiner's Student's History of England are recommended. Literary history is treated chiefly in lectures.

2. Each member of the class is required, in addition, to select one of the following courses for private reading:—

(1.) King Alfred's Pastoral Care.

(2.) The Blickling Homilies, and selections from Wulfstan's Homilies.

(3.) Cynewulf's Elene or Cædmon's (?) Exodus and Daniel; selections from Ælfric. *Twice (counting as three times) a week.*

Course IV. is elective for Sophomores. It must be taken by all who intend to elect the courses in Early English, or to take a special honor in English.

V. EARLY ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's Specimens of Early English. The historical development of the literature receives more attention than in the course in Anglo-Saxon. For collateral reading ten Brink's History of English Literature is recommended.

2. Each member of the class elects one of the following courses of collateral reading, and presents at least one thesis on a topic requiring special investigation:—

(1.) Selections from the Arthurian Romances, with a study of some of their sources:—Nennius, Historia Britonum; Geoffrey of Monmouth, Historia Regum Brittaniæ; the Romance of Merlin; Malory's Morte Darthur (edited by Sommer); Sir Gawayne and the Green Knight.

(2.) Selections from the Charlemagne Romances:—G. Paris, Histoire poétique de Charlemagne; La Chanson de Roland (edited by L. Gautier); the English Charlemagne Romances.

(3.) Selections from Chaucer's Canterbury Tales and minor poems.

(4.) Selections from the metrical chroniclers.

(5.) Selections from religious prose literature, the Ancren Riwle, Dan Michel's Ayenbite of Inwyt, etc. *Twice (counting as three times) a week.*

Course V. is elective for Juniors who have taken Course IV.

Courses IV. and V. are given in alternate years, Course V. being given the present year.

VI. BEOWULF. The poem is read as a piece of literature, rather than as a text for the study of grammar and etymology. Each member of the class presents at the end of the year a thesis on a topic assigned by the Professor. *Once a week.*

Course VI. is elective for those who have taken Course IV. It is omitted the present year.

VII. ANGLO-SAXON CHRONICLE. An advanced course, given this year. *Once (counting as twice) a week.*

Course VII. is elective for those who have taken Course IV.

VIII. GRADUATE INSTRUCTION. A graduate course in Gothic, with especial reference to English etymology. In addition to independent phonetic investigations, there are regular meetings for the reading of the text of Wulfila and for discussion of etymological questions. The books used include Wright's Gothic Language Primer, Balg's edition of Wulfila, Balg's translation of Braune's Gotische Grammatik, Skeat's Elements of English Etymology, Balg's Comparative Glossary of the Gothic Language. *Once a week.*

Course VIII. is omitted this year.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Members of the Freshman class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six, declamations in the year.

II. THEORY OF ELOCUTION. *Twice a week.*

The work of the first term is given to the Mechanics of Speech and to the Theories of Vocal Expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The work of the second term is in Gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given. The text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation, to be delivered before the class for criticism.

Course II. is elective for Juniors.

HISTORY.

ASSOCIATE PROFESSOR STEPHENSON.

I. ENGLISH CONSTITUTIONAL AND GENERAL HISTORY. Taswell-Langmead's English Constitutional History, and Gardiner's History of England, supplemented, for the purpose of illustration and comparison, by topical lectures, and by parallel readings in the general histories of England. *Three times a week.*

Course I. is omitted in 1893-94, but will be given the year following.

II. HISTORY OF THE UNITED STATES. The main text-books of the course are the Epochs of American History (Longmans) and Johnston's History of American Politics. A course of twenty-four lectures on important topics is given, and accompanying each lecture is a list of special readings. Papers and special reports are required from each member of the class. *Twice a week.*

Courses I. and II. are elective for Juniors. Course II. will be omitted in 1894-95.

III. HISTORICAL SEMINARY. Formation and early history of the Constitution. *Bi-weekly (counting as once a week).*

Course III. is elective for those who have taken Course I. and who also take Course II.

IV. EUROPEAN HISTORY. The laboratory method is followed. The instructor's Syllabus of Lectures on European History from the Fall of the Western Roman Empire to the Death of Napoleon is used as a guide, and the books therein referred to are reserved in the Reading Room of the Library. *Twice a week.*

Course IV. is elective for Juniors.

V. ROMAN JURISPRUDENCE. A course of lectures on the history of Roman law, with outlines and library guide. *Twice a week (first half-year).*

INTERNATIONAL LAW. A course of lectures on the elements of international law. *Twice a week (second half-year).*

Course V. is elective for Juniors.

VI. HISTORY OF INSTITUTIONS. A study of comparative politics, the central aim of which is to demonstrate the continuity and development of political institutions, and to place those of our own country in their proper setting. *Twice a week.*

Course VI. is elective for Seniors who take or have taken Course IV.

VII. CONSTITUTION OF THE UNITED STATES. *Twice a week (second half-year).*

Course VII. is required of Seniors.

ECONOMICS AND SOCIAL SCIENCE.

ASSOCIATE PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General Introductory Course. The ground to be covered corresponds quite closely to that covered by Walker's Political Economy (advanced course) or Andrew's Institutes of Economics. Recitations, with reports by the class on special topics. *Three times a week (second half-year).*

Course I. is required of Juniors.

II. APPLIED ECONOMICS. A course of lectures on economic problems of the present. The discussions cover such questions as the Monetary Situation, the Railway Problem, the Tariff, Taxation, Labor, Socialism, Banking. *Twice a week.*

Course II. is elective for those who have taken Course I.

III. PRINCIPLES OF ECONOMIC SCIENCE. Advanced Historical and Theoretical Course. This course includes a brief historical view, on the basis of Ingram's History of Political Economy, and critical studies in the writings of some of the great economists, Smith, Malthus, Ricardo, Senior, Mill, Cairnes, Jevons, Marshall. *Twice a week.*

Course III. is elective for those who have taken Course I.

IV. PUBLIC FINANCE. The work of this course is based on Bastable's Public Finance. A number of lectures are given, and members of the class present reports. *Twice a week.*

Course IV. is elective for those who have taken Course I.

V. ECONOMIC SEMINARY for original individual investigations in Economics, Finance, or Statistics. *Twice a week.*

Course V. is elective for those who have taken Course I., and who have taken or are taking Courses II. and III.

PHILOSOPHY.

PROFESSOR ARMSTRONG.

I. LOGIC. Jevons-Hill's Elements of Logic. The aim of this course is to ground the student in the fundamental forms of reasoned thinking, deductive and inductive alike. Logic is viewed not merely as a preliminary philosophical discipline, but as preparatory to all later and more advanced work. The study of the text-book is emphasized by numerous examples in logical praxis. *Twice a week (second half-year).*

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities, as Ladd's Outlines of Physiological Psychology, McCosh's Psychology, James's Principles of Psychology, and Baldwin's Handbook of Psychology. Instruction is not confined to the text-book, but lectures and discussions are used to explain and supplement it. These are introduced especially in illustration of the more recent psychological investigations and of positions still under debate. *Three times a week (first half-year).*

Course II. is required of Juniors.

III. INTRODUCTION TO PHILOSOPHY. Stuckenberg's Introduction to the Study of Philosophy, with collateral readings in Ladd's Introduction to Philosophy. *Twice a week (first half-year).*

Course III. is elective for Juniors.

IV. ANCIENT AND MEDIÆVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Twice a week (second half-year).*

Course IV. is elective for those who have taken Course III.

V. HISTORY OF MODERN PHILOSOPHY. An outline history of the development of philosophic thought in the modern era. Falckenberg's History of Modern Philosophy, with lectures and references to other standard histories, as Schwegler, Ueberweg, Erdmann, Windelband; recitations and discussions on the systems considered. *Three times a week (first half-year).*

Course V. is elective, under ordinary circumstances, for those who have taken Courses III. and IV.

VI. SELECTIONS FROM LEADING MODERN PHILOSOPHERS. In this course, representative works of leading modern thinkers from Descartes to Kant are studied and discussed. The course is based on such works as Veitch's Method, Meditations, and Selections from the Principles of Descartes, Locke's Essay on Human Understanding, Fraser's Selections from Berkeley, Hume's Enquiry concerning Human Understanding, Kant's Prolegomena, etc. *Three times a week (second half-year).*

Course VI. is elective for those who have taken Courses III., IV., and V.

VII. ADVANCED PSYCHOLOGY. James's Principles of Psychology with references to other authorities. This course is designed for honor students and for others who may wish to make a special study of modern psychology. It is given only in those years when there is a special demand for advanced work, and is open only to students who have taken high rank in the regular courses, and who have applied to the instructor for admission.

Course VII. is given this year, and counts as a one hour elective for Seniors.

GRADUATE INSTRUCTION. Courses of graduate study may be arranged for in advanced psychology, and in the history of philosophy, on application to the Professor of the department.

MORAL PHILOSOPHY.

PRESIDENT RAYMOND.

I. ETHICS. 1. Bowne's Principles of Ethics. Recitations and class discussions.

2. A comparative view of the several ethical theories is given by a rapid review of parts of Martineau's Types of Ethical Theory, lectures by the instructor, and essays on assigned topics by members of the class. *Twice a week (first half-year).*

Course I. is required of Seniors.

II. THEISM. Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Twice a week (second half-year).*

Course II. is elective for those who have taken Courses I.-V. in Philosophy.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. W. J. JAMES; DR. EICHELBERGER.

I. SOLID GEOMETRY. Chauvenet's Elementary Geometry. *Four times a week (first third of the year).* DR. EICHELBERGER.

TRIGONOMETRY. Wells' Plane and Spherical Trigonometry; Newcomb's Logarithmic Tables. *Four times a week (second third of the year).* DR. EICHELBERGER.

ANALYTICAL GEOMETRY,—elementary course. Wentworth's Analytical Geometry. *Four times a week (last third of the year).* DR. EICHELBERGER.

Course I. is required of Classical and Latin-Scientific Freshmen.

II. ALGEBRA. Wells' College Algebra. *Twice a week.* DR. EICHELBERGER.

Course II. is elective for those who have taken Course I.

III. APPLICATIONS OF TRIGONOMETRY to Surveying, Navigation, and elementary problems in Astronomy. Wentworth's Navigation and Surveying, with instrumental practice. *Twice a week.*

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. ANALYTICAL GEOMETRY,—advanced course. Salmon's Conic Sections; Aldis' Solid Geometry. *Twice a week.* MR. JAMES.

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS,—elementary course. Osborne's Treatise on Differential and Integral Calculus. *Twice a week.* PROFESSOR VAN VLECK.

Course V. is elective for those who have taken Course I.

Prospective candidates for special honors in Mathematics at graduation are advised to take Course V. in the Sophomore year.

VI. INTEGRAL CALCULUS, including DIFFERENTIAL EQUATIONS. *Three times a week.* MR. JAMES.

Course VI. is elective for those who have taken Course V.

VII. MODERN GEOMETRY. *Twice a week.*

Course VII. is elective for those who have taken Courses IV. and V. It is omitted the present year.

VIII. ANALYTICAL MECHANICS. *Three times a week.* PROFESSOR VAN VLECK.

Course VIII. is elective for those who have taken Courses IV., V., and VI.

IX. ASTRONOMY. A general course, requiring only elementary mathematics. Young's Elements of Astronomy. *Four times a week (first half-year).* PROFESSOR VAN VLECK.

Course IX. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

X. SPHERICAL AND PRACTICAL ASTRONOMY,—based on Chauvenet's Manual, with practical exercises in the Observatory. *Twice (counting as three times) a week.* PROFESSOR VAN VLECK and DR. EICHELBERGER.

Course X. is elective for those who have taken Courses V. and IX.

GRADUATE INSTRUCTION. The subjects of graduate instruction the present year are Theoretical Astronomy and the Theory of Functions.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course based on Everett's Text-book of Physics, involving only elementary mathematics. Mechanics, Heat, and Electricity. *Four times a week (first term); twice a week (first half of second term).* PROFESSOR ROSA. Sound and Light. *Twice a week (second half-year).* PROFESSOR CRAWFORD.

Course I. is required of Classical and Latin-Scientific Sophomores and of Scientific Freshmen.

II. ELEMENTARY PRACTICAL PHYSICS,—involving such experiments as are described, for example, in Hall and Bergen's Text-book

of Physics, or Worthington's Physical Laboratory Practice. The time required for each exercise is 2½ hours. *Twice a week.* PROFESSOR CRAWFORD.

Course II. is elective for those who take, or have taken, Course I.

III. 1. HEAT. Garnett's Elementary Treatise on Heat. *Three times a week (first term).* PROFESSOR CRAWFORD.

2. ELECTRICITY. Poyser's Magnetism and Electricity. *Three times a week (second and third terms).* PROFESSOR CRAWFORD.

Course III. is elective for those who have taken Course I.

IV. 1. MECHANICS. An elementary course based on Hicks' Elementary Dynamics, with special discussion of vibratory motion. *Twice a week (first half-year).* PROFESSOR CRAWFORD.

2. SOUND. A course of lectures. *Twice a week (second half-year).* PROFESSOR CRAWFORD.

V. LIGHT. A course of lectures, giving a general survey of geometrical optics and the wave theory of light. *Twice a week.* PROFESSOR CRAWFORD.

VI. ELEMENTARY APPLIED ELECTRICITY. In the first half-year, S. P. Thompson's Lessons is used. In the second half-year, the course consists of lectures giving the modern theory of the electromagnet, and applying it to dynamos, motors, and other electrical apparatus. This course is, in the main, theoretical rather than technical. *Twice a week.* PROFESSOR ROSA.

Courses IV., V., and VI. are omitted in 1893–94, but will be given the following year.

Students taking Courses III.–VI. are advised to take, if they have not already taken, Course V. in Mathematics.

VII. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, and Stewart and Gee. The time required for each exercise is 2½ hours. *Twice or three times a week.*

Course VII. is elective for those who have taken Course I.

VIII. PRACTICAL PHYSICS. A continuation of Course VII., with the same conditions as to time.

Course VIII. is elective for those who have taken Course VII.

In Courses VII. and VIII. the work in Mechanics, Sound, Light, and Heat, is carried on in the Physical Laboratory in Observatory Hall, under Professor Crawford; the work in Electricity, in the Electrical Laboratory, under Professor Rosa.

IX. MATHEMATICAL THEORY OF ELECTRICITY. A course of lectures on the theory of Electricity and Magnetism. This course is based upon Emtage's Mathematical Theory of Electricity and Magnetism. The differential and integral calculus is freely used, and an acquaintance with differential equations and solid analytical geometry is also helpful to those taking the course. *Twice a week.* PROFESSOR ROSA.

Course IX. is elective for those who have taken the equivalent of the second part of Course III. or the first part of Course VI. It is omitted in 1893–94, but will be given the year following.

X. DYNAMO-ELECTRIC MACHINERY. A continuation of Course VI. S. P. Thompson's Dynamo-Electric Machinery. *Twice a week.* PROFESSOR ROSA.

Course X. is elective for those who have taken Course VI.

XI. ALTERNATING CURRENTS OF ELECTRICITY. A course of lectures on the theory of periodic currents, based on Fleming's Alternate Current Transformer. *Twice a week.* PROFESSOR ROSA.

Course XI. is elective for those who have taken Course IX.

XII. JOURNAL MEETING. The Professors of the department meet the graduate students weekly for the purpose of reporting and discussing articles from the current English, French, and German journals of general physics and electricity.

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. Each student performs a considerable number of experiments in the laboratory. *Twice a week, from the beginning of the second term to the mid-year; three times a week during the second half-year.* PROFESSOR ATWATER and PROFESSOR BRADLEY.

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. ADVANCED ELEMENTARY CHEMISTRY. A course of lectures on the general principles and some of the applications of chemistry. It is supplementary to Course I. *Once a week.* PROFESSOR ATWATER.

Course II. is elective for those who have taken Course I., and will hereafter be a required introduction to the higher electives.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies 2½ hours. *Twice or three times a week.* PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course I. and are taking Course II.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies 2½ hours. *Twice or three times a week.* PROFESSOR ATWATER.

Course IV. is elective for those who have taken Course III., and will hereafter be elective for those who take or have taken Course II.

V. ORGANIC AND PHYSIOLOGICAL CHEMISTRY. Lectures and recitations.

1. The principles of organic chemistry, as illustrated by the derivatives of methane and benzene. *Three times a week (first and second terms).* PROFESSOR BRADLEY.

2. Selected chapters of physiological chemistry. Special attention is given to the chemistry of the animal body. *Three times a week (third term).* PROFESSOR ATWATER.

Course V. is elective for those who have taken Course III., and will hereafter be elective for those who take or have taken Course II.

VI. ORGANIC CHEMISTRY. A practical course, devoted to the preparation, purification, and analysis of compounds of carbon. It is desirable that this course be taken in connection with, or after, Course V. Each exercise occupies 2½ hours. *Twice or three times a week.* PROFESSOR BRADLEY.

Course VI. is elective for those who have taken Course III.

VII. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Twice a week.* PROFESSOR BRADLEY.

Course VII. is elective for those who have taken Course III.

VIII. CHEMICAL SEMINARY. A systematic course of instruction and reading in biological chemistry for graduate students, who are engaged in researches in the laboratory. *Three times a week.* PROFESSOR ATWATER.

Course VIII. is elective for Seniors who are candidates for special honors.

CHEMICAL RESEARCH. Laboratory courses devoted to original investigation in physiological, physical, and organic chemistry are provided for graduate students. Ability to read both French and German with reasonable facility is essential.

SPECIAL INVESTIGATIONS IN THE CHEMICAL LABORATORY. During a number of years past, investigations have been carried on in the chemical laboratory under the auspices of the Smithsonian Institution, the U. S. Fish Commission, and the U. S. Department of Labor in Washington, and in connection with the Storrs, Conn., Agricultural Experiment Station. The chemical work of the last named is, by courtesy of the Trustees of the University, carried on in rooms in the chemical laboratory. The general subject of all these inquiries has been the chemistry of the food and nutrition of animals and plants. Those in co-operation with the Department of Labor, which have to do with the economy of the food of man in relation to his useful work, and those in connection with the Experiment Station, which are now devoted largely to the chemistry of animal nutrition, are being actively prosecuted during the current year.

At the request of the Columbian Commission a study of the food products at the World's Fair was undertaken by Prof. Atwater with the aid of a number of chemists, including Messrs. C. D. Woods, H. B. Gibson and other gentlemen connected with the chemical laboratory. The investigation was conducted during the past summer in the laboratory of the University of Chicago and is being continued at Middletown.

An inquiry into the heats of combustion of organic substances is now being prosecuted with the aid of a new form of bomb calorimeter. Experiments are being made in the elaboration of a respiration-calorimeter for the study of the application of the laws of the conservation of matter and of energy in the living organism. This last investigation is physical as well as chemical and has the co-operation of Prof. Rosa.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. LeConte's Compend of Geology is used as a text-book, and is supplemented by lectures. The problems

of dynamical geology are discussed as fully as the time will allow. Stratigraphical and paleontological details are dealt with only so far as is necessary to illustrate general principles. *Twice a week.*

Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. ADVANCED GEOLOGY. During the greater part of the year, informal and conversational recitations in LeConte's Elements of Geology are held three times a week. Special topics for study, with bibliographical references, are from time to time assigned to each member of the class. Lectures on these topics are given by the members of the class, and are criticized and discussed. The Saturdays (except in winter) are generally occupied by excursions. In each excursion, one member of the class is appointed to present a report on the phenomena observed, in the form of a lecture to the class at its next meeting. *Three (counting as four) times a week.*

Course II. is elective for those who have taken Course I.; but it is very desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, with Geikie's Elementary Lessons as text-book. *Three times a week (thirteen weeks in the first and second terms).*

Course III. (in connection with II. Biology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

IV. MINERALOGY. This course comprises three parts, each occupying approximately one term:—1, a course of lectures on crystallography, with practical exercises in the study of crystallographic models and of crystals; 2, a brief course of lectures on optical mineralogy, and a course of laboratory work in determinative mineralogy; 3, a course of lectures on descriptive mineralogy. The works of Dana and Brush, and Williams' Elements of Crystallography, are used for reference. *Three times a week.*

Course IV. is elective for Classical and Latin-Scientific Juniors, and for Scientific Sophomores.

[NOTE.—In consequence of Professor Rice's absence last year, the preceding schedule is somewhat modified the present year. I. Geology is this year required of Classical and Latin-Scientific Seniors and Scientific Juniors (except those who elect II. Geology). Students are admitted to II. Geology this year without having

taken I. Geology. More time is given to the work, since the members of the class have had less previous training. The class accordingly meets five (counting as six) times a week. The work in LeConte's Elements is preceded by a few introductory lessons based on Dana's Geological Story Briefly Told.]

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. Demonstrations illustrating the physiology of the various tissues and organs accompany the lectures. *Four times a week (second half-year).*

Course I. is required of Classical and Latin-Scientific Juniors, and of Scientific Sophomores.

II. GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the fern, the earthworm, and the frog, which are used as illustrating the general structure and physiology of plants and animals. This course is designed as an introduction to the studies of Botany, Zoology, and Physiology. *Three times a week (first eight weeks of the first term).*

BOTANY. Gray's Lessons is used, accompanied by lectures on subjects not treated in the text-book. As soon as the season allows, the class-room exercises are replaced by laboratory work, including the analysis and description of plants, and the study of structural botany. *Three times a week (last third of the year).*

Course II. (in connection with III. Geology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

III. ZOOLOGY. Lectures, recitations, and class dissections. Typical examples, illustrating the various groups of the animal kingdom, are described, and dissected by the class, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Twice a week.*

Course III. is elective for Classical Juniors, and for Latin-Scientific and Scientific Sophomores.

IV. PRACTICAL BIOLOGY. The design of the courses in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mold, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies 2½ hours. *Twice or three times a week.*

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY,—advanced course. The second year is devoted to experiments in physiology and to the study of histology, bacteriology, embryology, and mammalian anatomy. Each exercise occupies 2½ hours. *Twice or three times a week.*

Course V. is elective for those who have taken Course IV.

VI. BACTERIOLOGY. A course of lectures giving the history of bacteriology from the seventeenth century to the present time. *Once a week.*

Course VI. is elective for Juniors who take Course IV. It will be omitted in 1894-95.

Candidates for special honors in Biology are especially recommended to take at least one summer course in the marine laboratory at Cold Spring Harbor.

GRADUATE INSTRUCTION. The laboratory work of the graduate student is of a different character from that of the undergraduate. Any undergraduate work that may have been omitted in his previous course is first completed, but the student is more independent, and his work is more advanced. In all cases it is expected that there will be some work of independent investigation, either on the part of the student alone, or in conjunction with the Professor.

Tabular Statement of the Courses of Study.

Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the Courses of Instruction in that department.

The Arabic numerals indicate the average number of exercises per week for the year in the respective studies.

In addition to those studies which are specified as required, each student must choose enough elective studies to make his whole number of lectures or recitations not less than fourteen, nor more than seventeen, per week. In making up this quota, studies which count for more than the number of exercises actually held are indicated by numbers added in a parenthesis.

Studies marked by a * are given the current year, but will be omitted next year; those marked by a † are omitted the current year, but will be given next year.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	4	I. Mathematics,	4
I. Greek,	4	I. English Language,	1

ELECTIVE.

I. German,	3	I. French,	3

SOPHOMORE YEAR.

REQUIRED.

Rhetoric, Logic,	2½	I. Physics, I. Chemistry,	4½

ELECTIVE.

II. Latin,	2	Italian,	2
III. Latin,	2	† Anglo-Saxon,	2 (3)
VII. Latin,	1	II. Mathematics,	2
†IX. Latin,	1	†III. Mathematics,	2
*X. Latin,	1	IV. Mathematics,	2
II. Greek,	2	V. Mathematics,	2
III. Greek,	1	II. Physics,	2
II. German,	3	Physical Geography,	3
II. French,	2	II. Biology,	
III. French,	1		

Each student must include in his electives one of the following combinations:—1. not less than one course of two hours per week in each of the three departments of Latin Greek, and Mathematics; 2. not less than five hours per week of electives in Mathematics and

Physics, both Latin and Greek being dropped; 3. not less than five hours per week in Latin and Greek, and not less than one course of two hours per week in each of those departments.

JUNIOR YEAR.

REQUIRED.

Psychology, I. Economics,	3	Astronomy, Physiology, Geology,	6

ELECTIVE.

*IV. Latin,	2	V. History,	2
†V. Latin,	2	III. Philosophy,	1
*VI. Latin,	2	IV. Philosophy,	1
†VIII. Latin,	1	VI. Mathematics,	3
†IV. Greek,	3	†VII. Mathematics,	2
*V. Greek,	3	VIII. Mathematics,	3
VI. Greek,	2	*III. Physics,	3
III. German,	2	†IV. Physics,	2
IV. French,	2 (3)	†V. Physics,	2
I. English Literature,	3	†VI. Physics,	2
*V. English Language,	2 (3)	VII. Physics,	2 or 3
†VI. English Language,	1	II. Chemistry,	1
*VII. English Language,	1 (2)	III. Chemistry,	2 or 3
Elocution,	2	IV. Geology,	3
†I. History,	3	III. Biology,	2
*II. History,	2	IV. Biology,	2 or 3
IV. History,	2	*VI. Biology,	1

SENIOR YEAR.

REQUIRED.

Constitution of U. S.,	1	*I. Geology,	2
Ethics,	1		

ELECTIVE.

XII. Latin,	4	III. Economics,	2
VII. Greek,	3	IV. Economics,	2
†V. French,	1 (2)	V. Economics,	2
*VI. French,	1 (2)	V. Philosophy,	1½
†II. English Literature,	2 (3)	VI. Philosophy,	1½
*III. English Literature,	2 (3)	VII. Philosophy,	1
IV. English Literature,	1	Theism,	1
III. History,	½(1)	Practical Astronomy,	2 (3)
VI. History,	2	VIII. Physics,	2 or 3
II. Economics,	2	†IX. Physics,	2

*X. Physics,	2	VI. Chemistry,	2 or 3
XI. Physics,	2	VII. Chemistry,	2
IV. Chemistry,	2 or 3	II. Geology,	3 (4)
V. Chemistry,	3	V. Biology,	2 or 3

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	4	Physical Geography,	3
I. Mathematics,	4	II. Biology,	
I. English Language,	1		

ELECTIVE.

I. German,	3	I. French,	3
II. German,	3	II. French,	2

SOPHOMORE YEAR.

REQUIRED.

Rhetoric, Logic,	2½	I. Physics, I. Chemistry,	4½

ELECTIVE.

II. Latin,	2	†Anglo-Saxon,	2 (3)
III. Latin,	2	II. Mathematics,	2
VII. Latin,	1	†III. Mathematics,	2
†IX. Latin,	1	IV. Mathematics,	2
*X. Latin,	1	V. Mathematics,	2
III. German,	2	II. Physics,	2
III. French,	1	III. Biology,	2
Italian,	2		

JUNIOR YEAR.

REQUIRED.

Psychology, I. Economics,	3	Astronomy, Physiology, Geology,	6

ELECTIVE.

*IV. Latin,	2	*V. English Language,	2 (3)
†V. Latin,	2	†VI. English Language,	1
*VI. Latin,	2	*VII. English Language,	1 (2)
†VIII. Latin,	1	Elocution,	2
IV. French,	2 (3)	†I. History,	3
I. English Literature,	3	*II. History,	2

IV. History,	2	†V. Physics,	2
V. History,	2	†VI. Physics,	2
III. Philosophy,	1	VII. Physics,	2 or 3
IV. Philosophy,	1	II. Chemistry,	1
VI. Mathematics,	3	III. Chemistry,	2 or 3
†VII. Mathematics,	2	IV. Geology,	3
VIII. Mathematics,	3	IV. Biology,	2 or 3
*III. Physics,	3	*VI. Biology,	1
†IV. Physics,	2		

SENIOR YEAR.

REQUIRED.

Constitution of U. S.,	1	*I. Geology,	2
Ethics,	1		

ELECTIVE.

XII. Latin,	4	VII. Philosophy,	1
†V. French,	1 (2)	Theism,	1
*VI. French,	1 (2)	Practical Astronomy,	2 (3)
†II. English Literature,	2 (3)	VIII. Physics,	2 or 3
*III. English Literature,	2 (3)	†IX. Physics,	2
IV. English Literature,	1	*X. Physics,	2
III. History,	½(1)	XI. Physics,	2
VI. History,	2	IV. Chemistry,	2 or 3
II. Economics,	2	V. Chemistry,	3
III. Economics,	2	VI. Chemistry,	2 or 3
IV. Economics,	2	VII. Chemistry,	2
V. Economics,	2	II. Geology,	3 (4)
V. Philosophy,	1½	V. Biology,	2 or 3
VI. Philosophy,	1½		

SCIENTIFIC COURSE.

The following course is laid down for those who enter college according to the requirements marked A on page 26. The modifications of this course for those who enter according to requirements B or C are indicated below.

FRESHMAN YEAR.

REQUIRED.

I. English Language,	1	I. German,	3
I. Physics, / I. Chemistry,	4½	II. French,	2
		or	
Physical Geography, / II. Biology,	3	II. German,	3
		I. French,	3

ELECTIVE.

II. Mathematics,	2	IV. Mathematics,	2
†III. Mathematics,	2	II. Physics,	2

SOPHOMORE YEAR.

REQUIRED.

II. German, or	3	Astronomy, Physiology, Geology,	6
II. French,	2		
Rhetoric, Logic,	2½		

ELECTIVE.

†IX. Latin,	1	†IV. Physics,	2
*X. Latin,	1	†V. Physics,	2
III. German,	2	†VI. Physics,	2
III. French,	1	VII. Physics,	2 or 3
Italian,	2	II. Chemistry,	1
†Anglo-Saxon,	2 (3)	III. Chemistry,	2 or 3
V. Mathematics,	2	IV. Geology,	3
*III. Physics,	3	III. Biology,	2

JUNIOR YEAR.

REQUIRED.

Psychology, I. Economics,	3	*I. Geology,	2

ELECTIVE.

IV. French,	2 (3)	†VII. Mathematics,	2
I. English Literature,	3	VIII. Mathematics,	3
*V. English Language,	2 (3)	Practical Astronomy,	2 (3)
†VI. English Language,	1	VIII. Physics,	2 or 3
*VII. English Language,	1 (2)	†IX. Physics,	2
Elocution,	2	*X. Physics,	2
†I. History,	3	IV. Chemistry,	2 or 3
*II. History,	2	V. Chemistry,	3
IV. History,	2	VI. Chemistry,	2 or 3
V. History,	2	VII. Chemistry,	2
III. Philosophy,	1	II. Geology,	3 (4)
IV. Philosophy,	1	IV. Biology,	2 or 3
VI. Mathematics,	3	*VI. Biology,	1

SENIOR YEAR.

REQUIRED.

Constitution of U. S., -	1	Ethics, - - - - -	1

ELECTIVE.

†V. French, - - -	1 (2)	IV. Economics, - -	2
*VI. French, - -	1 (2)	V. Economics, - -	2
†II. English Literature,	2 (3)	V. Philosophy, - -	1½
*III. English Literature,	2 (3)	VI. Philosophy, - -	1½
IV. English Literature, -	1	VII. Philosophy, - -	1
III. History, - -	½ (1)	Theism, - - - -	1
VI. History, - - -	2	XI. Physics, - - -	2
II. Economics, - -	2	V. Biology, - -	2 or 3
III. Economics, - -	2		

The course for those who enter college according to the set of requirements marked B, page 27, is the same as the above, with the following modifications:—

I. Mathematics, and either II. French or II. German, are required in Freshman year. III. and IV. Mathematics are elective in Sophomore year.

Those who enter according to the requirements marked C, page 27, are required to take I. Mathematics in Freshman year, and, for such of the courses I. Physics, I. Chemistry, Physical Geography, and II. Biology as they pass on at entrance, they substitute enough elective work to fill out the required quota of exercises per week. Their course in other respects, both as to required and elective studies, is the same as for those who enter according to requirements A, except that their elective studies in Mathematics follow the order just indicated for those who enter according to the requirements B.

In addition to the courses indicated in the foregoing tabular statement, exercises in English composition and public speaking are required of all classes, as specified on pages 38, 39, and 41.

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on pages 60 and 61. In that table the sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the above statement of Courses of Instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.

DAILY PROGRAMME.

1893-94.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.	VII. Greek. I. German. I. French. II. Economics. VI. Mathematics. III. Physics. Mineralogy.	VI. Greek. II. French. II. Economics. I. Physics, 2.	VII. Greek. I. German. I. French. II. History. I. Economics, 2 (2nd half-year). III. Physics. Mineralogy.	VII. Greek. I. German. I. French. I. Economics, 2 (2nd half-year). III. Physics. Mineralogy.	VI. Greek. II. French. II. History. I. Economics, 2 (2nd half-year). Practical Astronomy. I. Physics, 2 (1st term). II. Chemistry.
9.	I. Latin, 1. III. English Literature, 1. Rhetoric (1st half-year). Logic, 1 (2nd half-year). VI. History. I. Mathematics, 1. Practical Astronomy. Mineralogy.	I. Latin, 1. II. Greek. I. Mathematics, 1. Astronomy (1st half-year). I. Geology (Seniors). Physiology (2nd half-year).	I. Latin, 1. III. English Literature, 1. Rhetoric (1st half-year). VI. History. I. Economics, 1 (2nd half-year). Psychology (1st half-year). II. Geology.	II. Greek. I. Economics, 1 (2nd half-year). Psychology (1st half-year). I. Mathematics, 1. VIII. Mathematics. Mineralogy.	I. Latin, 1. Rhetoric (1st half-year). I. Economics, 1 (2nd half-year). Logic, 1 (2nd half-year). Psychology (1st half-year). I. Mathematics, 1. I. Geology (Seniors).
10.	VI. Latin. II. German. III. English Literature, 2. IV. Economics. I. Mathematics, 2. XI. Physics. V. Chemistry.	III. Latin. I. Greek, 1. V. Greek. III. French. III. Economics. I. Mathematics, 2. V. Mathematics. X. Physics. II. Geology. III. Biology.	VI. Latin. I. Greek, 1. II. German. III. English Literature, 2. IV. Economics. XI. Physics. V. Chemistry.	III. Latin. I. Greek, 1. V. Greek. III. Economics. I. Mathematics, 2. V. Mathematics. X. Physics. II. Geology. III. Biology. Declamation (Juniors, 8).* Declamation (Freshmen, 1).*	I. Greek, 1. V. Greek. II. German. IV. English Literature. I. Mathematics, 2. XII. Physics. V. Chemistry.

DAILY PROGRAMME.—(Continued.)

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
11.	III. Greek. Italian. I. English Literature. V. Philosophy (1st half-year). VI. Philosophy (2nd half-year). IV. Mathematics. VIII. Mathematics. II. Geology.	II. Latin. I. Greek, 2. V. English Language. V. History. III. Philosophy (1st half-year). IV. Philosophy (2nd half-year). VI. Mathematics. VII. Chemistry.	I. Greek, 2. I. English Literature. V. Philosophy (1st half-year). VI. Philosophy (2nd half-year). II. Mathematics. VI. Biology. Declamation (Sophomores, 1, 2).*	II. Latin. I. Greek, 2. V. English Language. V. History. III. Philosophy (1st half-year). IV. Philosophy (2nd half-year). VI. Mathematics. VII. Chemistry. Declamation (Juniors, 5, 6, 7).*	I. Greek, 2. Italian. I. English Literature. V. Philosophy (1st half-year). VI. Philosophy (2nd half-year). IV. Mathematics. VIII. Mathematics. II. Geology.
12.	I. Latin, 2. I. Mathematics, 3. Forensics.* Astronomy (1st half-year). I. Physics (1st term). I. Chemistry (2nd and 3rd terms). Physiology (2nd half-year).	I. Latin, 2. I. Mathematics, 3. I. Physics, 1. I. Geology (Juniors).	I. Latin, 2. Constitution (2nd half-year). Ethics (1st half-year). Astronomy (1st half-year). I. Chemistry (2nd half year). Physiology (2nd half-year). Declamation (Freshmen, 3).*	Constitution (2nd half-year). Ethics (1st half-year). I. Mathematics, 3. Astronomy (1st half-year). I. Physics. Physiology (2nd half-year). Declamation (Freshmen, 2).*	I. Latin, 2. I. Mathematics, 3. I. Physics, 1 (1st term). I. Chemistry (2nd and 3rd terms). I. Geology (Juniors).
2	III., IV., VI. Chemistry.	II., VII., VIII. Physics. General Biology and Botany. IV., V. Biology. Declamation (Sophomores, 3).* Declamation (Freshmen, 4).*	III. History.* VII., VIII. Physics. III., IV., VI. Chemistry. General Biology and Botany. IV., V. Biology. Declamation (Juniors, 1).* Declamation (Sophomores, 4).*	III. German. II., VII., VIII. Physics. General Biology and Botany. IV., V. Biology. Declamation (Juniors, 2, 3, 4).*	III., IV., VI. Chemistry.
3.	IV. Latin. X. Latin. IV. French. Logic, 2 (2nd half-year). Freshman English (Macaulay). III., IV., VI. Chemistry.	XII. Latin. III. German. Elocution IV. History. II., VII., VIII. Physics Physical Geography, } General Biology & Botany. } IV., V. Biology.	VII. Latin. VI. French. III. History.* Theism (2nd half-year). VII., VIII. Physics. III., IV., VI. Chemistry. Physical Geography, } General Biology & Botany. } IV., V. Biology.	XII. Latin. IV. French. VI. English Language. Elocution. Theism (2nd half-year). II., VII., VIII. Physics. Physical Geography, } General Biology & Botany. } IV., V. Biology.	IV. Latin. Freshman English (Anglo-Saxon). IV. History. Logic, 2 (2nd half-year). II. Mathematics. III., IV., VI. Chemistry.
4.	V. English Literature. III., IV., VI. Chemistry.	XII. Latin. VI. English Literature. II., VII., VIII. Physics. IV., V. Biology.	VII., VIII. Physics. III., IV., VI. Chemistry. IV., V. Biology.	XII. Latin. II., VII., VIII. Physics. IV., V. Biology.	III., IV., VI. Chemistry.

GENERAL REGULATIONS.*

QUOTA OF STUDIES.

The quota of regular studies for every student is such as to require, for a minimum, fourteen hours, and, for a maximum, seventeen hours, of class room work each week, exclusive of rhetorical exercises, and no student shall be allowed to take less than fourteen hours, nor more than seventeen hours of work each week without special permission of the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5 denoting failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has passed during the year.

EXAMINATIONS.

Regular examinations are held at the end of each term, and during a specified period in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study, can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence.

For students who, for any reason, have not passed at any regular examination, opportunities for special examinations are given at specified times. If a student shall fail to pass a final examination in any study, before that study is taken up by the next succeeding class, he will, unless specially excused therefrom, be required to recite with

*Copies of the Regulations may be obtained from the Secretary.

that class. A student who, at the close of the special examinations held at the beginning of the year, is deficient by an amount equivalent to six or more hours of work per week for a year, is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

If any student fails to make up his entrance conditions before the beginning of the next college year, he is then excluded from all recitations until the conditions are made up.

ATHLETICS.

No member of the Senior or Junior class who is deficient in his college work more than three hours per week for a year, and no member of the Sophomore class who is deficient more than four hours per week for a year, is allowed to take part in any athletic contest with another team, except by special permission; and any student becoming notably deficient in his work during the year may be debarred from playing in such a contest.

PUBLIC WORSHIP.

Devotional services are held in the College Chapel every morning, and all the students are required to be present.

Every student is required to attend the morning service on Sundays in some one of the churches in the city.

A limited number of absences from chapel and church are allowed, without the presentation of any excuse.

Voluntary religious services under the direction of the Faculty, the several college classes, and the Young Men's Christian Association are held weekly.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	$75 00
Room Rent, for half-room, from $18.00 to $50.00; average,	26 00
Steam-heat; average for half-room,	9 00
General Repairs and Incidental Expenses,	24 00
Use of Library and Reading Rooms,	6 00
Total,	$140 00

Students in Practical Chemistry are charged for the use of apparatus, for chemicals, and for incidentals. The charge averages about nine dollars a term for quantitative, and about six dollars a term for qualitative analysis.

A fee of five dollars a term is charged to each student in Practical Physics, and also to each student in Practical Biology.

Ladies residing in the Ladies' Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Hall.

A diploma fee of five dollars is charged to each student at graduation.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on the day appointed. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board must in all cases be subject to the approval

of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Gentlemen rooming in the college buildings provide for themselves furniture and lights.

Board may be obtained in private families at prices varying from $3.75 to $5.00 a week. A large majority of the students board in clubs, at prices ranging from $3.00 to $3.50 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

MATERIAL EQUIPMENT.

LIBRARY AND READING ROOMS.

THE LIBRARY in Rich Hall contains about forty-one thousand volumes. The Library hall is open every week-day of term time, except Saturdays, from 8 A. M. to 1 P. M., and from 2:30 to 4:30 P. M.; on Saturdays, from 8 A. M. to 12 M., and from 1 P. M. to 3 P. M. Students are allowed direct access to the shelves. Copies of the Library Rules may be obtained from the Librarian.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. The second, or Library, reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Members of the Junior class have frequent opportunities, in connection with the general course in Astronomy, to examine the most interesting celestial objects through the telescope; and members of the class in Practical Astronomy are instructed in the theory and use of all the instruments in the Observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is used for

miscellaneous laboratory work, one for physiological work, one for coarse dissection, and one for bacteriological work. The Laboratory is equipped with all the apparatus necessary for elementary biological work, being supplied with microscopes, micrometers, water tanks, warm chambers, dissecting apparatus, myographs, bacteriological apparatus, etc., together with abundance of material for anatomical and histological study. The General Laboratory Room is provided with a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of most of the experiments usually undertaken in undergraduate courses; while, in the department of electricity, recent large additions of apparatus and machinery afford facilities for extended research, and for instruction in the use of all important electrical instruments. The laboratory work in all departments except electricity is carried on in the rooms on the ground floor of Observatory Hall. The building originally used as a chemical laboratory has been transformed into an electrical laboratory, in which the water, steam, and gas pipes are of brass, thus affording a nearly undisturbed magnetic field, while the dynamos and associated instruments, and also a well-equipped workshop, are located at a convenient distance from the electrical laboratory in the boiler house.

Some of the most important pieces of apparatus and machinery used in the laboratory are the following:—cathetometer, by Bamberg; four balances, by Bunge and Becker; reversion pendulum, by Société Genevoise; goniometer, by Hilger, with 18 inch circle (graduated by Troughton and Simms); heliostat, by Brashear; diffraction gratings; diffraction bench by Duboscq; photometric apparatus; Jolly's air thermometer; many of the important pieces of Koenig's acoustic apparatus; Thompson's centi-ampere balance; quadrant electrometers; tangent and astatic galvanometers; resistance boxes; Weston's ammeters and voltmeters; Cardew and other voltmeters; Siemens' electrodynamometer; standard ten-ohm coil from the Cavendish Laboratory; a storage battery of 56 cells; and several important pieces of apparatus of special design constructed in the workshop.

DYNAMO ROOM AND WORKSHOP. The principal machines in the dynamo room and workshop are the following: — a 25 horse-power Ball engine; Thompson indicator; Edison 5-kilowatt compound dynamo; Edison 3 kilowatt shunt motor and several small motors; West-

inghouse "pony" alternating current dynamo and transformers; tachometer; Thompson wattmeters (for direct and alternating currents); Reed lathe; American Watch Tool Co.'s lathe; Barnes drill; Garvin milling machine; and a suitable outfit of hand and machine tools. The shop is in charge of a skilled mechanician who constructs apparatus for lecture and laboratory use.

THE CHEMICAL LABORATORY occupies five rooms in Judd Hall, with store-rooms in the basement. A large working-room on the first floor, with a balance-room adjoining, furnishes accommodations for about thirty students in analytical chemistry, and smaller rooms afford conveniences for the work of instructors and graduate students. A large room in the basement has been furnished and set apart for the laboratory work of the required course in Elementary Chemistry.

The rooms of the Physical Laboratory and some of the rooms of the Chemical and Biological Laboratories are lighted by electricity.

GYMNASIUM.

A gymnasium adequate to meet the requirements entailed by the growth of the college is now being built, and by the end of the college year it will be ready for occupancy.

Its dimensions are 55 by 120 feet. It is located on the north side of the rear campus and runs parallel to Wyllys Avenue, with the front toward the campus.

The basement story is of brown stone and the stories above of brick. The entrance, flanked by two massive round towers, is approached by a broad flight of stone steps. The basement contains three bowling alleys, a base-ball court 28 by 80 feet, baths, lockers and toilet rooms, together with a large plunge tank 80 by 16 feet.

On the first floor are the offices of the director, and the gymnasium proper, which occupies the whole space to the left of the entrance. This large hall affords ample room for every variety of gymnastic apparatus. Above the main floor there is a running track suspended from the roof, so as to leave the floor space free from pillars. On the second floor to the right is a committee room for the use of the various athletic organizations, as well as additional bath rooms and lockers. The janitor's room is on the third floor over the entrance. Special attention has been paid to ventilation, drainage, lighting, etc., and the present structure is believed to contain the best features of a modern gymnasium. The total cost of construction will be about $50,000.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to educational purposes, and are freely accessible to students.

The nucleus of the Department of Zoology and Botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoological Department has received since 1872 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The Vertebrata of North America, the marine Invertebrata of New England, and the Mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in Lithology, Physical Geology, and Paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A large collection of Silurian and Devonian fossils has been added since the commencement of the present College year by an expedition to western Maryland undertaken by the Assistant in the Museum.

The Ethnographical Department includes a large collection of Indian relics; a valuable collection of pottery from the guano beds

of Peru, presented by the late Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; and a remarkably full series of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D. In connection with the Ethnographical Department of the Museum, should be mentioned a collection of coins numbering over 3,000, exclusive of duplicates. Included in this number is a collection of 1,750 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. The greater part of the Ethnographical collection is at present arranged in the lower hall of the Museum, with the collections in Mineralogy and Geology. The coins (with the exception of a small selection placed on exhibition in the Museum) are kept in a case in the Library, where they can be seen by students and others by special application. Small collections illustrative of of Classical Archæology are kept in the Seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the Museum:—

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	150
Fishes,	2,100
Insects—pinned and alcoholic,	3,800
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Cœlentera,	1,700
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,700
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	11,500
Fossils—Paleozoic,	4,000
Mesozoic,	800
Cenozoic,	2,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	2,500
Coins,	5,000

The Museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A limited number of scholarships exempting the holders from the charge for tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This Scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is to be given annually to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this Scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

This Scholarship was awarded for the year 1892-93 to Jesse Lee Rollins.

THE SQUIRE SCHOLARSHIP.

This Scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of $5,000 will be awarded to that member of the Senior class who shall pass the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

COLLEGE HONORS.

PRIZES.

The following prizes will be awarded during the present year:—

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior class whose oration at Commencement shall be deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before Tuesday, June 19.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior class who shall excel in English Composition. The subject for the essay of 1894 is, Tennyson as an Artist. The subject for the essay of 1895 is, The Novel as a Moral Force in the last half of the Nineteenth Century. The essays must be left with the Professor of English Literature on or before the first Monday of the third term.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in honor of Professor C. S. Harrington, will be awarded to that member of the Senior class who shall excel in History. It will be given in 1894 upon a special examination in the course in History marked VI. in the present catalogue, page 42.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior class who shall excel in Moral Philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior class who shall write the best essay on some specified subject in the domain of Political Economy. The subject for the essay of 1894 is, The Relative Importance of Money and Credit in Determining General Prices. The essays must be left with the head of the department on or before the third Monday in May.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will

be awarded to that member of the Senior, Junior, or Sophomore class who shall excel in Natural Science. The examination for this prize this year will be in Geology.

The G. Brown Goode Prize, the gift of G. Brown Goode, LL. D., will be awarded for the best Original Investigation in the department of Natural History.

Two prizes will be awarded, as a first and second prize, respectively, to the two members of the Junior class who shall present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations will be considered.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior class who shall excel in English Literature.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior class who shall excel in Philosophy.

A prize will be awarded to that member of the Junior class who shall excel in Debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be awarded to that member of the Junior class who shall excel in Psychology.

The Johnston Prize, the gift of Rev. David G. Downey, M. A., in honor of Professor John Johnston, will be awarded to that member of the Junior class who shall excel in Electricity. It will be given in 1894 upon a special examination in the second part of the course in Physics marked III. in the present catalogue, page 47.

The Parker Prize, the gift of Rev. John Parker, for excellence in Elocution, will be awarded to the best speaker in the Junior and Sophomore classes.

The Scranton Prize, the gift of Simeon S. Scranton, will be awarded, in the same classes, as a second prize for excellence in Elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore class who shall excel in Greek.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore class who shall excel in Latin.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore class who shall excel in Mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman class who shall excel in Mathematics.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman class who shall excel in Declamation.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to college.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in any of the college classes, who shall write the best English poem. The poem must be left with the Professor of English Literature before the Senior Examination.

The designation of the classes to which the prizes are offered is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold any one of these prizes, if, in their judgment, no one of the exercises presented in competition for it possesses the requisite merit.

The prizes were awarded last year as follows:—

The Rich Prize, to Martin Oliver Lepley;

Committee of Award: Hon. Martin Augustine Knapp, LL. D., Syracuse, N. Y.,
George Silas Coleman, M. A., New York, N. Y.,
Rev. Emerson K. Young, D. D., New Britain.

The Olin Prize, to Ashley Horace Thorndike;

Committee of Award: Professor Williston Walker, Ph. D., Hartford Theological Seminary.

The Harrington Prize, to Ashley Horace Thorndike;

Committee of Award: Professor John Franklin Jameson, Ph. D., Brown University.

The Wise Prize, to Ashley Horace Thorndike.

The Joseph D. Weeks Prize, to Ashley Horace Thorndike;
Committee of Award: Professor Herbert Elmer Mills, Ph. D., Vassar College.
The Prize in Christian Evidences, to Ashley Horace Thorndike.
The Peirce Prize, to James Pendleton Erskine.
The G. Brown Goode Prize, to Albert Emory Loveland.
The First Junior Exhibition Prize, to Frederic Lawrence Knowles;
Committee of Award: Rev. Edward Campion Acheson, M. A., Middletown,
Frederick Berg Hartranft, Hartford Theological Seminary,
Elmer Goodrich Derby, M. A., Middletown.
The Second Junior Exhibition Prize, to Charles Wesley Delano;
Committee of Award: same as for the First Junior Exhibition prize.
The Camp Prize, to Frederic Lawrence Knowles.
The Weeks Prize, to Charles Hubbard Judd;
Committee of Award: Professor Harry Norman Gardiner, M. A., Smith College.
The Prize for Debate, to Charles Hubbard Judd;
Committee of Award: Edward H. Smiley, M. A., Hartford,
Daniel Halsey Wells, C. E., Hartford,
Willis Ira Twitchell, B. A., Hartford.
The Walkley Prize, to Charles Hubbard Judd;
Committee of Award: Professor Winthrop Moore Daniels, M. A., Princeton College.
The Parker Prize, to Charles Otis Judkins;
Committee of Award: Frank Rollins, B. A., Newton, Mass.,
Homer Worthington Brainard, B. A., Hartford,
Clarence Everett Bacon, M. A., Middletown.
The Scranton Prize, to Edward Lee Steele;
Committee of Award: same as for the Parker prize.
The Spinney Prize, to Edward Lee Thorndike.
The Phi Beta Kappa Prize, to Merle Bowman Waltz.
The Rice Prize, to Merle Bowman Waltz.
The Sherman Prize, to Charles Samuel Leavenworth.
The Hibbard Prize, to William Braman Tower;
Committee of Award: same as for the Junior Debate prize.
The Ayres Prize for the present year has been awarded to Bernard Ferriss Greenslet.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to the grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected according to the grade in composition and declamation subsequent to the Sophomore year. The number of speakers at each of these public exercises is limited to ten. The speakers last year were:—

AT THE JUNIOR EXHIBITION.—Ernest Bawden, Charles Wesley Delano, Abraham Howry Espenshade, William Wright Fisher, Fredric Worthen Frost, Charles Hubbard Judd, Frederic Lawrence Knowles, William Leonard Snow.

AT COMMENCEMENT.—Sarah Langton Abbott, George Hubbard Blakeslee, Wesley Elwell Lake, Martin Oliver Lepley, George Henry Moore, Vida Frank Moore, Ashley Horace Thorndike.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor are conferred at graduation, based upon the general scholarship of the student throughou· his whole course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of Classics and of Mathematics at the end of the Sophomore or of the Junior year, and no student shall receive special honors at graduation in Greek, Latin, or Mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given as early as the first Monday in May of the year in which the candidate proposes to present himself for the special examination. The case of each candidate shall be decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must pass, and maintain an average standing of second grade in the following courses:—I., II., and III. Greek, and I., either II. or III., and VII. Latin.

2. He must also pass with distinction a special examination designed to test *(a)* his ability to translate Greek and Latin into English at sight, and *(b)* his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history. This special examination shall be held near the end of the academic year.

Mathematics.—1. The candidate must pass, and maintain an average standing of second grade, in the required courses in Mathematics, and in such elective courses, amounting to not less than six hours a week, as may be approved by the head of the department. Courses II., IV., and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

If the candidate for preliminary honors shall fail to attain an average standing of second grade, in the studies prescribed in the preceding regulations, he may, nevertheless, receive the honor, provided his work during the Sophomore and Junior years in the department in which he proposes to take a preliminary honor, shall show, in the opinion of the instructors concerned, a sufficient degree of improvement.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Special honors are also awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Biology; Geology.

The conditions upon which these special honors are awarded are as follows:—

(1) The candidate must apply to the officer of the department in which he proposes to take honors, not later than the first Monday in May in the Junior year.

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must maintain an average standing of second grade after the beginning of his Sophomore year; provided, however, that, if he maintain a standing of first grade in such of these studies as he pursues in his Junior and Senior years, the standing of the Sophomore year may be ignored.

(3) No student shall receive special honors who shall fail to pass in any study of the last two years of the course.

(4) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading or investigation as shall be prescribed by the officer in charge of the department. The evidence of his proficiency in this collateral

course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

(5) In addition to other requirements, every candidate for special honors shall be required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination shall be oral, and shall be conducted in the presence of a committee of the Faculty.

(6) No examination for special honors shall be given, and no thesis or other work in preparation for special honors shall be received, after the second Saturday preceding Commencement.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. All the courses in Latin except one of the Courses II. to VI., at the candidate's option.

2. Courses I. and II., in Greek; or the first two courses in German, the first two courses in French, and the course in Italian.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. All the courses in Greek.

2. Course I., and either Course II., or Course III. in Latin.

German.—1. All the courses in German.

2. The first two courses in French.

3. The course in Anglo-Saxon.

Romance Languages.—1. Courses I., II., III., and IV. in French, and the course in Italian.

2. The first two courses in German.

English.—1. The required courses in English, including Composition.

2. One of the following groups of elective courses:—

(a.) Anglo-Saxon, Early English, and Courses I., IV., and either II. or III. in English Literature.

(b.) Anglo-Saxon, Early English, Course I. in English Literature, and Courses I. and II. in German.

(c.) The elective courses in English Literature, Anglo-Saxon, and Course I. in History.

History.—1. All the courses, required and elective, in History.

2. The required course, and one elective course, in Economics and Social Science.

Economics and Social Science.—1. All the courses in Economics and Social Science.

2. Courses I., II., and IV. in History.

Philosophy.—*(a.) General Philosophy.*—1. The first six courses in Philosophy.

2. The courses in Ethics and Theism.

(b.) Psychology.—1. The first six courses in Philosophy.

2. The course in Ethics.

3. The required course in Physiology, and one course in Practical Biology.

Mathematics.—1. The required courses in Mathematics and Astronomy.

2. Elective courses in Mathematics and Astronomy, amounting in the aggregate to fifteen hours a week.

3. The required course in Physics.

[Prospective candidates for special honors in Mathematics at graduation are advised to take Course V. in Mathematics in the Sophomore year.]

Physics.—1. The required course in Physics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises a week).

3. Any three of the following courses:—III., IV., V., VI., IX., X., and XI. Physics, and VIII. Mathematics.

4. The required course in Chemistry.

5. Either Course III. in Chemistry or Course V. in Mathematics.

Chemistry.—1. All the courses in Chemistry, except Course VI.

2. The required course in Physics.

3. One elective course in Physics, or one course in Practical Biology.

Geology.—1. The required courses in Geology and Physiology.

2. The elective courses in Zoology, General Biology and Botany, and Physical Geography.

3. The course in Mineralogy, and Course II. in Geology.

4. Either Course IV. in Biology, or Course III. in Chemistry.

Biology.—1, 2. Same as for Geology.

3. Two years of Practical Biology.

4. Course III. in Chemistry.

[Candidates for special honors in Biology at graduation are especially recommended to take at least one summer course in the Marine Laboratory at Cold Spring Harbor.]

The names of those students who take preliminary honors are announced on the Monday preceding Commencement.

The honors at graduation, both general and special, are stated in the diploma; and the names of students who take such honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:—

GENERAL SCHOLARSHIP.—*First Grade.* **Winfred Chandler Akers, George Hubbard Blakeslee, Wesley Elwell Lake, Vida Frank Moore, Ashley Horace Thorndike.**

Second Grade. Sarah Langton Abbott, Frederic Cutts, Edgar Van Fossen Du Bois, George Nelson Edwards, Charles Gourlay Goodrich, Lorenzo Walter Hadley, Daniel Acker Lehman, George Henry Moore, Maud Eliza Muzzy, Lewis Johnson Norton, Frederick Curry Ostrander, Leon Irving Wood.

SPECIAL DEPARTMENTS. — *German.* — The writings of Heine. Thesis: "Heine as the Typical Romanticist."

To Charles Gourlay Goodrich.

Philosophy.—Studies in English Empiricism. Thesis: "The Relation of Locke and Leibnitz."

To George Nelson Edwards.

English.—Studies in Fourteenth Century English. Thesis: "Chaucer's Troilus and Cryseyde, with a study of the Sources and Development of the Story."

To Mattie Lincoln Hills.

Greek.—Studies in Greek Tragedy. Thesis: "Woman in Greek Tragedy."

To Mary Pembroke O'Flaherty.

Mathematics.—Problems in Mechanics.

To Daniel Acker Lehman and Lewis Johnson Norton.

DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science will be conferred in accordance with the following regulations:—

1. The degree of Master of Arts may be conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. Said course of study shall be under the full direction of a Committee of the Faculty on Graduate Instruction, to be composed of three permanent members with the addition of the instructor in charge of each department in which the candidate shall pursue work. Evidence of the candidate's proficiency in the approved studies shall be given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations or processes, or by two or more of these methods combined, as the Committee may prescribe. All such tests of proficiency shall be under the direction of the Committee, and they shall report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate In-

struction, or who shall pass such additional examinations as the Committee may prescribe, the degree of Master of Arts may be conferred on the conditions prescribed in the case of Bachelor of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts may also be conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations shall hold in the case of non-resident as in the case of resident students. The degree may also be conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate shall have spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science may be conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions that govern in the case of the degree of Master of Arts.

5. A fee of ten dollars shall be required from each graduate student upon promotion to the Master's degree.

In accordance with the above regulations, the Faculty have appointed Professors Van Vleck, Atwater, and Merrill permanent members of the Committee on Graduate Instruction, and to them, or to the head of any one of the departments of instruction, may be addressed communications from prospective graduate students.

At the last Commencement, degrees were conferred as follows:—

THE DEGREE OF B. A. was conferred on:—Sarah Langton Abbott, Winfred Chandler Akers, William Loyal Andrus, Franklin Barber, George Hubbard Blakeslee, Frederic Cutts, Edgar Van Fossen Du Bois, Willard Baker Dukeshire, George Nelson Edwards, Clifford Curtis Gilbert, Frederick Smith Hall, Mattie Lincoln Hills, David Hughes, Freeman Tower Hulse, Wesley Elwell Lake, James Adelbert Leach, Martin Oliver Lepley, Albert Emory Loveland, George Henry Moore, Maud Eliza Muzzy, John Orville Newton, Charles Edward North, Mary Pembroke O'Flaherty, Frederick Curry Ostrander, Robert Chapin Parker, Royal Wilkins Raymond, Jesse Lee Rollins, Walter Earle Russell, Arthur Thomas Talmadge, Harry Arthur Thompson, Ashley Horace Thorndike, Leon Irving Wood.

THE DEGREE OF PH. B. was conferred on:—Charles Gourlay Goodrich, Lorenzo Walter Hadley, Jetur White Hand, Hervey Howard, Daniel Acker Lehman, Vida Frank Moore, Lewis Johnson Norton, Walter Starr Watson.

THE DEGREE OF B. S. was conferred on:—William Ephraim Fairbank, Arthur Isaac Powers, Caroline Tracy Robbins, Edwin Oscar Smith.

THE DEGREE OF M. A. on Examination was conferred on:—

John Wesley Barnhart, B. A., 1892. Subject: Biology. Thesis: "The Protozoa of Middletown."

Lincoln Robinson Gibbs, B. A., 1892. Major Subject: English Literature and Language. Minor Subject: Old French. Thesis "John Keats and His Critics—a Study in the History of Criticism."

Robert Paul Green, B. A., 1890. Subject: Greek History. Thesis: "A Comparison of the Method and Style of the Three Greek Historians."

Frederick Allen King, B. A., 1891. Subject: English Literature. Thesis: "The Relation of Milton to the Renaissance."

Clifford Ives Parshley, B. A., 1892. Major Subject: English Literature and Language. Minor Subject: English History. Thesis: "The Attitude of the Puritans towards the Drama—a Study in the History of Criticism."

Alfred Ernest Taylor, B. A., 1892. Major Subject: Chemistry. Minor Subject: Physics. Thesis: "The Coefficient of Expansion of Benzene Solutions."

Olin Freeman Tower, B. A., 1892. Subject: Chemistry. Thesis: "The Viscosity of Benzene Solutions."

THE DEGREE OF M. S. on Examination was conferred on:—

Charles Allison Miller, Ph. B., 1892. Subject: Physics. Thesis: "On the Measurement of Animal Heat with a new form of Respiration Calorimeter."

Charles Wilfred Savage, B. S., 1891. Subject: Physics. Thesis: "On the Measurement of Animal Heat with a new form of Respiration Calorimeter."

THE DEGREE OF D. D. was conferred on:—Rev. Henry Ward Bennett (class of 1862), of Potsdam, N. Y.; Rev. Charles Francis Rice (class of 1872), of Cambridge, Mass.; Rev. Marcus Lorenzo Taft (class of 1873), of Peking, China.

THE DEGREE OF LL. D. was conferred on Professor Henry Smith Carhart (class of 1869), of the University of Michigan.

ALUMNI RECORD.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the Librarian, W. J. James. The price of the Record, when sent by mail, is two dollars and twenty-five cents.

A Supplement to the Alumni Record, containing an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, and their addresses, was published in August, 1893.

Information in regard to changes of residence or address of Alumni or to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Mr. F. W. Nicolson.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Bulletin. All persons who can supply information appropriate to future lists, are urgently requested to communicate the same to Mr. F. W. Nicolson.

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CALENDAR.

1893.

Sept. 28, Thursday—First Term began.
Nov. 30,—Dec. 2,—Thanksgiving Recess.
Dec. 22, Friday—First Term will close.

1894. CHRISTMAS RECESS.

Jan. 3, Wednesday—Second Term will begin.
Jan. 25, Thursday—Day of Prayer for Colleges.
Feb. 12,—Feb. 17,—Mid-year Examinations.
March 21, Wednesday—Second Term will close.

EASTER RECESS.

March 27, Tuesday—Third Term will begin.
March 31, Saturday—Last day for presenting Junior Exhibition Essays.
April 2, Monday—Last day for presenting Olin Prize Essays.
April 12, Thursday—Junior Exhibition.
May 7, Monday—Last day for presenting applications for Preliminary and Special Honors.
May 21, Monday—Last day for presenting Joseph D. Weeks Prize Essays.
June 4, Monday—Senior Examination will commence.
June 7, Thursday—Prize Debate and Declamation.
June 12, Tuesday—Annual Examination will commence.
June 19, Tuesday—Last day for presenting Rich Prize Essays.
June 22, Friday—Prize Declamation.
June 24, Sunday Morning—Baccalaureate Sermon.
June 24, Sunday Evening—University Sermon.
June 25, Monday—Class Day.
June 26, Tuesday—Meeting of the Board of Trustees.
June 26, Tuesday—Business Meeting and Anniversary of the Alumni Association.
June 26, Tuesday—Reunion of Classes of 1844, '69, '79, '84, '87, '91.
June 26, Tuesday—Anniversaries of the Literary Societies.
June 27, The last Wednesday of June—COMMENCEMENT.
June 28, Thursday—Examination of candidates for admission will begin.

VACATION OF THIRTEEN WEEKS.

Sept. 25, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 26, Wednesday—Examination of candidates for admission will begin.
Sept. 27, Thursday—First Term will begin.
Dec. 22, Friday—First Term will close.

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ANNUAL CATALOGUE

—OF—

Wesleyan University.

1894-95.

MIDDLETOWN, CONN.
THE MIDDLETOWN TRIBUNE PRINT.
1894.

CATALOGUE

—OF—

Wesleyan University,

1894-95.

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M. DCCC. XCIV.

TRIBUNE PRINT,
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The term of office is five years, the official year beginning on the Tuesday preceding the Annual Commencement.

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ASSOCIATE PROFESSOR OF HISTORY.

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SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Samuel Le Roy Ackerly,	*Northport, N. Y.*	Δ. K. E. *House.*
§ Lula Giralda Adams,	*Biddeford, Me.*	*46 Wyllys Ave.*
James Lincoln Bahret,	*Poughkeepsie, N. Y.*	X. Ψ. *Lodge.*
§ Eldred Lewis Manley Barnes,	*Waitsfield, Vt.*	Φ. P. *House.*
Le Roy Mason Beeman,	*Moriah Centre, N. Y.*	Ψ. Υ. *House.*
§ Caroline Chalker Clark,	*Wethersfield.*	*274 High St.*
Clifford Pease Clark,	*No. Wilbraham, Mass.*	Ψ. Υ. *House.*
§ Walter Eli Clark,	*Chaplin, Conn.*	X. Ψ. *Lodge.*
Edward Francis Coffin,	*Worcester, Mass.*	B. Θ. Π. *House.*
Wilmer Evans Coffman,	*Philadelphia, Pa.*	18 N. C.
Arthur Beebe Darling,	*Ogdensburg, N. Y.*	Ψ. Υ. *House.*
Stephen Brooks Davis, Jr.,	*Middletown.*	*252 College St.*
Frank Willis Doane,	*Middletown.*	*Bow Lane.*
James Pendleton Erskine,	*Searsport, Me.*	32 N. C.
Edward Justus Gale,	*Barre, Vt.*	X. Ψ. *Lodge.*
Norman Everett Gilbert,	*Middletown.*	13 O. H.
Andrew Buchanan White Gillies,	*Rochester, N. Y.*	*306 William St.*
William Elithan Greene,	*Houlton, Me.*	*Gymnasium.*
§ Thomas Jose Hambley,	*Niantic.*	15 N. C.
§ Henry Ingraham Harriman,	*Brooklyn, N. Y.*	17 O. H.
William Henry Hayes,	*New York, N. Y.*	*51 Wyllys Ave.*
Charles Otis Judkins,	*Bristol, N. H.*	Ψ. Υ. *House.*
† Frederick Kniffen,	*Catskill, N. Y.*	Φ. P. *House.*
§ Franklin Thomas Kurt,	*Middletown.*	X. Ψ. *Lodge.*
George Nelson Lapham,	*Kent's Hill, Me.*	*88 Wyllys Ave.*
Alexander Henry Leo,	*Glenside, Pa.*	Δ. K. E. *House.*
John Stryker Lull,	*New York, N. Y.*	28 N. C.
Albert Barrett Meredith,	*Springfield, Mass.*	27 N. C.
Hiram Emery Miller,	*West Winterport, Me.*	14 N. C.
Warren Roberts Neff,	*Passaic, N. J.*	A. Δ. Φ. *House.*
Samuel Bowman Opdyke,	*Easton, Pa.*	A. Δ. Φ. *House.*
William Willet Peck,	*Port Jervis, N. Y.*	A. Δ. Φ. *House.*
Daniel Hays Piper,	*Middletown.*	Φ. P. *House.*
§ Arthur Cleveland Pomeroy,	*Brooklyn, N. Y.*	Ψ. Υ. *House.*

NAMES.	RESIDENCES.	ROOMS.
§ George Hale Ryder,	*Hartford.*	B. Θ. Π. *House.*
Arthur Henry Scudder,	*Hunter, N. Y.*	4 N. C.
Colbert Searles,	*Livermore Falls, Me.*	*88 Wyllys Ave.*
Ernest Ketcham Smith,	*Marlboro, Mass.*	Δ. Δ. Φ. *House.*
George Benton Smith,	*New Britain.*	X. Ψ. *Lodge.*
Verona J. Smith,	*Gloversville, N. Y.*	Ψ. Υ. *House.*
† Elizabeth Cocks Stocking.	*Simsbury.*	*150 Church St.*
Howard Anderson Sutton,	*Haverford, Pa.*	Ψ. Υ. *House.*
Henry Allen Thayer,	*Woonsocket, R. I.*	Δ. K. E. *House.*
§ Abby May Thompson,	*Rumford, Me.*	*274 High St.*
Edward Lee Thorndike,	*Springfield, Mass.*	19 O. H.
§ Sarah Bertha Tucker,	*Durham.*	*150 Church St.*
Joseph King Van Denburg,	*Fort Edward, N. Y.*	Ψ. Υ. *House.*
John Gillen Walsh,	*Middletown.*	14 N. C.
Merle Bowman Waltz,	*Quincy, Ill.*	Δ. K. E. *House.*
† Frances Louise Weeks,	*Middletown.*	*297 College St.*
† Maud Eloise Wells,	*Hartford.*	*274 High St.*
Claude Lucas Wilson,	*Middletown.*	30 N. C.
William Seaver Woods,	*Corning, N. Y.*	*306 William St.*

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
John Abraham Anderson,	*Chicago, Ill.*	*242 High St.*
† William Wright Anderson,	*Wellsville, N. Y.*	Δ. K. E. *House.*
§ Harry Arthur Batchelder,	*Plainfield, Vt.*	B. Θ. Π. *House.*
Cornelius Roach Berrien,	*Montclair, N. J.*	17 O. H.
Albert Francis Blakeslee,	*East Greenwich, R. I.*	12 O. H.
Francis Cobb Brown,	*Huntington, N. Y.*	A. Δ. Φ. *House.*
William Harry Burgwin,	*Fabius, N. Y.*	36 N. C.
* § James Harvey Burnes,	*Brooklyn, N. Y.*	X. Ψ. *Lodge.*
§ Alfred Burnette Case,	*Jamestown, N. Y.*	28 N. C.
William Barrett Cass,	*Saratoga Springs, N. Y.*	*51 Wyllys Ave.*
Jason Franklin Chase,	*Chelsea, Mass.*	57 N. C.
§ Isabella Jamieson Church,	*Middletown.*	*South Farms.*

*DECEASED.

NAMES.	RESIDENCES.	ROOMS.
Henry Loren Clements,	*Moscow, Pa.*	*178 Church St.*
§ James Brooks Comins,	*Stafford Springs.*	X. Ψ. *Lodge.*
§ Melrose Delmont Davies,	*Winthrop, Me.*	Δ. K. E. *House.*
§ Jeanie Louise DeForest,	*Huntington, N. Y.*	*238 High St.*
* Joseph Albertson Dilks, Jr.,	*Pemberton, N. J.*	X. Ψ. *Lodge.*
§ May Stockbridge Finney,	*Hartford.*	*274 High St.*
§ Hart Silas Fuller,	*Ellenville, N. Y.*	Φ. P. *House.*
§ James Henry Fuller,	*Lenox, Pa.*	Δ. K. E. *House.*
§ Edith Rochelle Graves,	*Clear Lake, Ia.*	*274 High St.*
† Albert Jabesh Harris,	*Buffalo, N. Y.*	29 N. C.
Olin Wesley Hill,	*New Haven.*	B. Θ. Π. *House.*
§ Lillian Grey Inglis,	*Middletown.*	*176 Main St.*
§ Frank Goodwin Jester,	*Milford, Del.*	X. Ψ. *Lodge.*
† Anna Josephine Kellogg,	*Meriden.*	*238 High St.*
Irville Charles LeCompte,	*Binghamton, N. Y.*	Δ. K. E. *House.*
Frank Thaddeus Love,	*Pittsfield, Mass.*	X. Ψ. *Lodge.*
Mary Annie McKay,	*Camden, Me.*	*238 High St.*
† Irving Edward Manchester,	*West Winsted.*	38 N. C.
Thomas Bowie Miller,	*New Haven.*	33 N. C.
Robert Augustus Montgomery,	*Old Bridge, N. J.*	29 N. C.
George Miles Moody,	*Troy, N. Y.*	Ψ. Υ. *House.*
§William Henry Seward Morey,	*Baldwinsville, N. Y.*	B. Θ. Π. *House.*
Ellis Franklin Nightingale,	*Middletown.*	*Gymnasium.*
Louis Arthur Norris,	*Montpelier, Vt.*	Φ. P. *House.*
† George Wingate Norton,	*Middletown.*	20 N. C.
Albert Eugene Osborne,	*Lathrop, Pa.*	*178 Church St.*
Fannie Bishop Petty,	*Centre Moriches, N. Y.*	*238 High St.*
Joseph Adams Puffer,	*Harrington, Me.*	Φ. P. *House.*
James Pullman,	*Bridgeport.*	Δ. Δ. Φ. *House.*
Ernest Scott Quimby,	*Rochester, N. H.*	Δ. K. E. *House.*
Richard Reed Reynolds,	*Southington.*	B. Θ. Π. *House.*
§ Julia Robinson,	*Hartford.*	*238 High St.*
§ Elizabeth Halsey Rogers,	*Sagaponack, N. Y.*	*238 High St.*
† William Eugene Schimpff,	*Scranton, Pa.*	Φ. P. *House.*
§ Lucy Osborne Searle,	*Niles, Mich.*	*274 High St.*
John Foster Searles,	*Brooklyn, N. Y.*	*242 High St.*
Edmund David Searls,	*Chelsea, Me.*	Ψ. Υ. *House.*
§ Edgar Benton Singer,	*Albert, Pa.*	Δ. K. E. *House.*

*DECEASED.

NAMES.	RESIDENCES.	ROOMS.
§ Olive Elizabeth Smith,	*Meriden.*	*238 High St.*
Vernon Benjamin Swett,	*South Paris, Me.*	2 N. C.
Joseph Willard Thomas,	*North Gorham, Me.*	4 N. C.
George Dallas Thompson,	*Manasquan, N. J.*	B. Θ. H. *House.*
† George Leavitt Tirrell,	*Norwich.*	A. Δ. Φ. *House.*
William Braman Tower,	*Worcester, Mass.*	44 N. C.
Henry Deiderich Trinkaus,	*Bridgeport.*	33 N. C.
Wilbur Abbott Welch,	*New York, N. Y.*	Ψ. Υ. *House.*
Renwick White,	*Highlands, N. C.*	Φ. P. *House.*
§ Margaret Neff Williams,	*New Britain.*	*274 High St.*

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Mary Abbie Adams,	*West Thompson.*	*274 High St.*
Edith Jefferson Andrus,	*Yonkers, N. Y.*	*274 High St.*
Alexander Montague Atherton,	*Honolulu, H. I.*	Ψ. Υ. *House.*
Alfred George Austin,	*Irasburg, Vt.*	B. Θ. H. *House.*
Eva Viola Austin,	*Yonkers, N. Y.*	*274 High St.*
Charles Thomas Beers,	*Catskill, N. Y.*	Φ. P. *House.*
§ Manning Blackstone Bennett,	*Mexico, N. Y.*	17 N. C.
Reuben Nelson Bennett,	*Wilkes-Barre, Pa.*	Ψ. Υ. *House.*
Fred Jennerich Bohlmann,	*Hobart, N. Y.*	10 N. C.
George Alexander Bridge,	*Hazardville.*	*109 Broad St.*
§ Carrie Tappan Brown,	*New Hartford.*	*238 High St.*
Charles Harvey Brown,	*Lansingburg, N. Y.*	Φ. P. *House.*
Burton Hoag Brownell,	*Tomhannock, N. Y.*	Δ. K. E. *House.*
§ Mary Grace Bunnell,	*Bridgeport.*	*274 High St.*
§ Frank Wright Burr,	*Middletown.*	*17 Cross St.*
§ Davison Augustus Chandler,	*Paterson, N. J.*	57 N. C.
§ William Huse Chapman,	*Middletown.*	37 N. C.
§ Jane Coughlin,	*Bridgeport.*	*274 High St.*
§ Newland Evan Davis,	*Middletown.*	30 N. C.
Howard George Dibble,	*Troy, N. Y.*	27 N. C.
§ Lizzie Emma Dufford,	*Paterson, N. J.*	*274 High St.*

NAMES.	RESIDENCES.	ROOMS.
George Evans,	*Wanamie, Pa.*	*306 William St.*
§ Albert Linwood Fickett,	*Auburn, Me.*	X. Ψ. *Lodge.*
William Gill Giffin,	*Mt. Vernon, N. Y.*	Ψ. Υ. *House.*
John Gowdy,	*Lawrence, Mass.*	38 N. C.
Bernard Ferriss Greenslet,	*Glens Falls, N. Y.*	Ψ. Υ. *House.*
§ William Gano Guernsey,	*Bangall, N. Y.*	*306 William St.*
† Charles Thomas Guildford,	*West Winsted.*	13 N. C.
§ Alice Baker Guy,	*Middletown.*	*South Farms.*
Emmie Bailey Harris,	*Fitchburg, Mass.*	*274 High St.*
† Olivia Howell Hatfield,	*Pittston, Pa.*	*238 High St.*
† Whitney Myron Hubbard,	*Greenport, N. Y.*	*South Farms.*
Chester Chaffee Kent,	*Meriden.*	Δ. K. E. *House.*
Delmar J. Lindley,	*Brooklyn, Pa.*	*296 William St.*
§ May Blanche Lord,	*West Hartford.*	*274 High St.*
* § William Henry McCauley,	*Le Raysville, Pa.*	12 O. H.
William Harry McMorris,	*Harrisburg, Pa.*	6 N. C.
§ Clarence Harry Martin,	*Bradford, Vt.*	Φ. P. *House.*
§ Cornelia Augusta Meeks,	*Yonkers, N. Y.*	*274 High St.*
Thomas Robinson Moore,	*Felton, Del.*	X. Ψ. *Lodge.*
Francis Reid North,	*Montclair, N. J.*	*31 College Place.*
§ Stephen Allen Norton,	*Middletown.*	20 N. C.
Francis Davenport Pringle,	*Plymouth, Pa.*	X. Ψ. *Lodge.*
William Barton Pruner,	*Wilkes-Barre, Pa.*	36 N. C.
Charles Landon Rockwell,	*New York, N. Y.*	A. Δ. Φ. *House.*
Frederick William Roe,	*Wolcott, N. Y.*	A. Δ. Φ. *House.*
Julian Mills Round,	*Elmira, N. Y.*	A. Δ. Φ. *House.*
† Clarence Arthur Sanford,	*Meriden.*	17 N. C.
Alvenza Ingham Smith,	*Winthrop, Me.*	43 N. C.
§ Minnie Rose Snow,	*East Hampton.*	*274 High St.*
John Lewis Sparklin,	*Fowling Creek, Md.*	X. Ψ. *Lodge.*
§ Elizabeth Cookman Stevens,	*White Plains, N. Y.*	*274 High St.*
Cornelia Haddon Stone,	*Middletown.*	*96 William St.*
William Eli Davis Stone,	*Worcester, Mass.*	16 N. C.
Evan Lenn Tamblyn,	*Hackettstown, N. J.*	*171 High St.*
Mary Grace Thompson,	*Meriden.*	*274 High St.*
William Alexander Thompson,	*Meriden.*	A. Δ. Φ. *House.*
Howard Van Deusen,	*Tranquility, N. J.*	Δ. K. E. *House.*
Mary Lawton Westgate,	*Middletown.*	*178 Church St.*

*DECEASED.

NAMES.	RESIDENCES.	ROOMS.
Bessie Williams,	*New Britain.*	*274 High St.*
Leon Kurtz Willman,	*Pottstown, Pa.*	43 N. C.
Walter Whortle Wilsey,	*Middletown.*	*72 College St.*
§ Robert Paddock Wilson,	*Middletown.*	30 N. C.
† Paul Livingston Woolston,	*Ocean Grove, N. J.*	A. Δ. Φ. *House.*
§ Carrie May Yale,	*Meriden.*	*274 High St.*
Myron Burton Yaw,	*Enosburg Falls, Vt.*	B. Θ. Π. *House.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
George Randall Abrams,	*Lakeville.*	X. Ψ. *Lodge.*
† James Leon Alexander,	*Elizabeth, N. J.*	61 N. C.
Charles Francis Allen,	*Cucamonga, Cal.*	*256 High St.*
Benjamin Francis Andrews,	*South Norwalk.*	35 N. C.
George Edward Andrews,	*South Newmarket, N. H.*	45 N. C.
Frank Cooke Atherton,	*Honolulu, H. I.*	Ψ. Υ. *House.*
Bernard Giffin Barton,	*Derby.*	53 N. C.
§ Harold Holmes Bayliss,	*Brooklyn, N. Y.*	49 N. C.
Alling Prudden Beardsley,	*Derby.*	*197 High St.*
Charles Everitt Benedict,	*East Norwalk.*	55 N. C.
Francis Roe Benham,	*Clifton Springs, N. Y.*	58 N. C.
Albert Edson Bobo,	*Brooklyn, N. Y.*	62 N. C.
Victor Samson Britten,	*Chittenango, N. Y.*	48 N. C.
Thomas Sleeper Brock,	*Camden, N. J.*	16 O. H.
Fred Inness Brown,	*Providence, R. I.*	11 N. C.
Eugene Wyllys Burr,	*Montclair, N. J.*	39 N. C.
§ Mortimer Hart Camp,	*New Britain.*	8 N. C.
§ William Nesbitt Campaigne,	*Troy, N. Y.*	*306 William St.*
* Albert Warren Clark,	*Derby, Vt.*	19 N. C.
William Clarence Darby,	*Hoosick Falls, N. Y.*	Δ. K. E. *House.*
Alfred Tredwell Davison,	*Brooklyn, N. Y.*	53 N. C.
§ Frank Everett Eastman,	*Stafford Springs.*	*150 College St.*
John Howard Fairchild,	*Middletown.*	*24 Grand St.*
§ Charles J. FitzGerald,	*Middletown.*	*50 Washington St.*

*DECEASED.

NAMES.	RESIDENCES.	ROOMS.
§ Edmund Wilson Frain,	*Williamsport, Pa.*	42 N. C.
Margaret Wilber Gaines,	*Hawley, Pa.*	*178 Church St.*
§ Florence Mabel Gamache,	*Shrewsbury, Mass.*	*301 College St.*
George Gilmour,	*Philadelphia, Pa.*	52 N. C.
† Carle Augustus Graves,	*New Britain.*	10 N. C.
§ John Bengough Griffiths,	*Jermyn, Pa.*	59 N. C.
§ Arthur Olin Griggs,	*Westford.*	11 N. C.
Stanley Sessions Gwillim,	*Bristol.*	58 N. C.
Hattie Bernice Hall,	*Springfield, Mass.*	*238 High St.*
† Jesse Ralph Harris,	*Buffalo, N. Y.*	18 N. C.
Harold Hastings,	*Ubet, Mont.*	64 N. C.
† Phillip Bovier Hawk,	*East Branch, N. Y.*	59 N. C.
William Herrick Hawkins,	*Albany, N. Y.*	54 N. C.
Herbert Hazzard,	*Kingston, N. Y.*	13 N. C.
§ John Robertson Henry,	*St. John, N. B.*	52 N. C.
Warren Lanning Hoagland, Jr.,	*Passaic, N. J.*	62 N. C.
George Herbert Hough,	*Brattleboro, Vt.*	19 N. C.
§ DeWitt Hubbell,	*Buffalo, N. Y.*	*252 College St.*
§ Eben Jackson,	*Middletown.*	*376 Washington St.*
† Fred Chase Jackson,	*Jersey City, N. J.*	50 N. C.
§ Robert Fenwick Jackson,	*Middletown.*	*392 Washington St.*
Robert Tolles Jones,	*Brooklyn, N. Y.*	*173 High St.*
§ George Albertus Kenyon,	*Elmira, N. Y.*	42 N. C.
† Howard Hapgood Kipp,	*Sing Sing, N. Y.*	*W. T. House.*
Albert Ernest Legg,	*Mapleville, R. I.*	2 N. C.
Ellis Richard Lewis,	*Read, N. Y.*	*306 William St.*
Herbert Abram Lewis,	*Utica, N. Y.*	41 N. C.
George Bush MacComber,	*Watertown, N. Y.*	39 N. C.
Roberta Mason,	*Westfield, N. J.*	*274 High St.*
Harold Denman Meeker,	*Cincinnati, O.*	60 N. C.
§ Edward Laird Mills,	*Bozeman, Mont.*	51 N. C.
§ Robert Denniston Milner,	*Winnipauk.*	55 N. C.
† Edward Louis Montgomery,	*South Manchester.*	50 N. C.
Samuel Alfred Moyle,	*Derby.*	*173 High St.*
§ Eleanor Newell,	*Hartford.*	*174 Church St.*
Adolphus Stewart North,	*New York, N. Y.*	*31 College St.*
§ Mary Northrop,	*Middletown.*	*174 Church St.*
George Leroy Noyes,	*Lisbon, N. H.*	64 N. C.

NAMES.	RESIDENCES.	ROOMS.
Hannah Pembroke O'Flaherty,	*Hartford.*	*238 High St.*
Patrick Francis O'Neill,	*Wilkes-Barre, Pa.*	*296 William St.*
§ George Wilbur Osmun,	*Danbury.*	63 N. C.
§ George Henry Pepper,	*East Creek, N. J.*	16 O. H.
Robert Edward Platt,	*Waterbury.*	B. Θ. Π. *House.*
§ Susie Hadley Potter,	*Ipswich, Mass.*	*238 High St.*
† Ernest Orrin Powers,	*North Dana, Mass.*	B. Θ. Π. *House.*
Arthur Wellington Price,	*West Southport, Me.*	Φ. P. *House.*
Samuel Quickmire,	*Vineland, N. J.*	47 N. C.
John Reaveley, Jr.,	*Turner's Falls, Mass.*	45 N. C.
Walter Bright Rile,	*Wilmington, Del.*	B. Θ. Π. *House.*
George Douglas Robins,	*Concord, N. H.*	41 N. C.
† Zula Elizabeth Rogers,	*Meriden.*	*274 High St.*
Benjamin Ernest Sibley,	*Rialto, Cal.*	*256 High St.*
Walter Herbert Stevens,	*Plattsburg, N. Y.*	*306 William St.*
§ Irving Edward Strong,	*Portland.*	31 N. C.
Addie Frances Sweet,	*Leominster, Mass.*	*274 High St.*
§ Edward William Thompson,	*Waverly, N. Y.*	X. Ψ. *Lodge.*
Freeman Augustus Tower,	*Sterling Junction, Mass.*	44 N. C.
§ Gilbert Haven Trafton,	*Chebeague, Me.*	48 N. C.
John Armstrong Wade,	*Brooklyn, N. Y.*	31 N. C.
§ Isabel Maria Walbridge,	*Hartford.*	*274 High St.*
† Wilbur Sanford Weeks,	*Middletown.*	*297 College St.*
† Ralph Delano Whiting,	*Bound Brook, N. J.*	60 N. C.
Elizabeth Caramossi Wright,	*Hartford.*	*274 High St.*
† William Abbott Wyatt,	*Norwalk.*	Ψ. Υ. *House.*
Eleanor Belle Yates,	*New Britain.*	*116 High St.*
Archer Everett Young,	*New Britain.*	8 N. C.
Arthur Evelyn Young,	*New Britain.*	8 N. C.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Adella Webster Bates,	*Rockville.*	*178 Church St.*
Harry Elmore Stetson,	*Limestone, Me.*	63 N. C.

SUMMARY.

GRADUATE STUDENTS,	16
SENIORS,	53
JUNIORS,	60
SOPHOMORES,	66
FRESHMEN,	91
SPECIAL STUDENTS,	2
TOTAL,	288

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year, and must be continued during the second year unless the student elects a very considerable proportion of his studies from the departments of Mathematics and Physics. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the above courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete either of the above courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study

in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.

TERMS OF ADMISSION.*

CLASSICAL COURSE.

Candidates for the Freshman Class in the Classical Course are examined in the following books and subjects:—

LATIN. 1. Latin Grammar, including Prosody.

2. Cæsar,—Gallic War, books I.–IV.

3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.

4. Vergil,—Eclogues; Æneid, books I.–VI.

5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.

6. Translation into Latin of simple English sentences and easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry nor *vice versa*.

*For prize for excellence in the studies preparatory to admission see "Ayres Prize".

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit;* *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always *trilled*, *ch*, *ph*, and *th*, as *c*, *p*, and *t*, with the aspiration following, as in *hack-hire*, *haphazard*, *boat-hook;* other consonants as in English.

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

GREEK. 1. Greek Grammar,—Hadley-Allen's, or Goodwin's.
2. Xenophon,—four books of the Anabasis.
3. Homer,—three books of the Iliad.
4. Translation at sight of one or more passages from Xenophon.
5. Translation of simple English sentences into Greek.

Teachers of Greek and Latin in preparatory schools are urged to insist upon the use of simple and idiomatic English in translation.

HISTORY AND GEOGRAPHY. 1. History of Rome to the death of Marcus Aurelius.
2. History of Greece to the capture of Corinth, 146 B. C.
3. Ancient Geography.

The following books are recommended as the basis of instruction in History and Geography:—

1. Allen's Short History of the Roman People (Part II. of Myers and Allen's Ancient History) pp. 1-275.
2. Myers' Eastern Nations and Greece (Part I. of Myers' and of Myers and Allen's Ancient History) beginning with Section II.
3. Tozer's Primer of Ancient Geography.

Familiarity with map drawing is also especially desirable.

MATHEMATICS. 1. Algebra, through Progressions, including the use of the Binomial Formula for positive integral exponents,—so much, for example, as is contained in Wentworth's Elements of Algebra, or in the first seven books of Newcomb's Algebra for Colleges.

2. Plane Geometry,—the first five books of Chauvenet's Geometry, or their equivalent.

ENGLISH. 1. *Reading and Practice.* A limited number of books are assigned for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter of these books and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination will be:—

1895—Shakspere's Twelfth Night; the Sir Roger de Coverley Papers in The Spectator; Irving's Sketch Book; Scott's Abbot; Webster's first Bunker Hill Oration; Macaulay's Essay on Milton; Longfellow's Evangeline.

1896—Shakspere's Midsummer Night's Dream; Defoe's History of the Plague in London; Irving's Tales of a Traveler; Scott's Woodstock; Macaulay's Essay on Milton; Longfellow's Evangeline; George Eliot's Silas Marner.

1897—Shakspere's As You Like It; Defoe's History of the Plague in London; Irving's Tales of a Traveler; Hawthorne's Twice Told Tales; Longfellow's Evangeline; George Eliot's Silas Marner.

1898—Milton's Paradise Lost, Books I. and II.; Pope's Iliad, Books I. and XXII.; the Sir Roger de Coverley Papers in The Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Southey's Life of Nelson; Carlyle's Essay on Burns; Lowell's Vision of Sir Launfal; Hawthorne's The House of the Seven Gables.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books will cover subject-matter, form, and structure, and also test the candidate's ability to express his knowledge with clearness and accuracy. The books set for this part of the examination will be:—

1895—Shakspere's Merchant of Venice; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Macaulay's Essay on Addison.

1896—Shakspere's Merchant of Venice; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Webster's first Bunker Hill Oration.

1897—Shakspere's Merchant of Venice; Burke's Speech on Conciliation with America; Scott's Marmion; Macaulay's Life of Samuel Johnson.

1898—Shakspere's Macbeth; Burke's Speech on Conciliation with America; DeQuincey's Flight of a Tartar Tribe; Tennyson's The Princess.

Note.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for the Latin-Scientific Course will be examined in the following books and subjects:—

LATIN. Same requirements as for the Classical Course.

HISTORY AND GEOGRAPHY. Same requirements as for the Classical Course, including Greek History and Geography.

MATHEMATICS. Same requirements as for the Classical Course.

ENGLISH. Same requirements as for the Classical Course.

FRENCH OR GERMAN, at the option of the candidate. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions. The work is intended to be substantially equivalent to Course I. in French or German as outlined below, pages 33 and 34.

SCIENTIFIC COURSE.

Candidates for the Scientific Course have the option of the three following series of requirements:—

A.

MATHEMATICS. Same requirements as for the Classical Course, with the addition of the following subjects:—

1. Solid Geometry,—the last four books of Chauvenet's Geometry, or their equivalent.

2. Plane and Spherical Trigonometry, with the use of Logarithmic and Trigonometric Tables.

3. Analytical Geometry, including the straight line, the circle, and elementary properties of the conic sections.

ENGLISH. Same requirements as for the Classical Course.

FRENCH OR GERMAN, at the option of the candidate. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions. The work is intended to be substantially equivalent to Course I. in French or German, as outlined below, pages 33 and 34.

NATURAL SCIENCE. Any one of the three following courses, at the option of the candidate:—

I. *Botany and Physical Geography.* 1. In Botany the candidate must pass an examination in Gray's Lessons in Botany, and must show ability to dissect flowers of ordinary difficulty, and to write descriptions of them.

2. In Physical Geography, such a knowledge of the subject will be required as can be gained from the study of Geikie's Elementary Lessons.

II. *Chemistry.* 1. Such a knowledge of the subject will be required as can be gained from Eliot and Storer's Manual of Chemistry, omitting chapters XV.–XVIII. inclusive, or from Remsen's Chemistry, Elementary Course.

2. The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

III. *Physics.* 1. Such a knowledge of the subject will be required as can be gained from Carhart and Chute's Elements of Physics, or Gage's Introduction to Physical Science.

2. The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. The experiments may be selected from such manuals as Worthington's Physical Laboratory Practice, or Chute's Physical Laboratory Manual.

B.

MATHEMATICS. Same requirements as for the Classical Course.

ENGLISH. Same requirements as for the Classical Course.

FRENCH AND GERMAN. The equivalent of Course I. in both French and German, and of Course II. in either French or German, at the option of the candidate. (see pages 33 and 34.)

NATURAL SCIENCE. Same as specified under A.

C.

MATHEMATICS. Same requirements as for the Classical Course.

ENGLISH. Same requirements as for the Classical Course.

FRENCH OR GERMAN. Same as specified under A.

NATURAL SCIENCE. *All three* of the courses specified under A.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe.

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING. All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

PRELIMINARY EXAMINATIONS. A student who has accomplished half or more of the preparatory course may be examined on that part and receive credit therefor a year or more in advance of the time at which he expects to enter college. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies in which he has not already passed. But no credit will be given unless the candidate is able, in the June and September examinations of the same year taken together, to pass in at least half of the preparatory course.

DATE AND PLACE OF EXAMINATIONS. The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing at 9 A. M. on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President

before June 1. The time of these examinations will be Thursday and Friday of Commencement week. But, if no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE. Certificates covering the major part of the above requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. Detailed information concerning admission by certificate may be obtained on application to the President, or the Secretary of the Faculty; but no certificates are received covering the entrance requirements in Latin Prose Composition, Sight Reading of Latin (both prose and poetry), Greek Prose Composition, Sight Reading of Greek, French, German, Natural Science.

After 1895, certificates will not be received covering the second part (*Study and Practice*) of the entrance requirement in English.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

LATIN.

PROFESSOR MERRILL; MR. NICOLSON.

I. LIVY,—Books 1 and 2. *Four times a week (first half-year).* MR. NICOLSON.

PLAUTUS,—Trinummus; TERENCE,—Phormio; CICERO,—De Senectute. *Four times a week (second half-year).* MR. NICOLSON.

Exercises in sight translation and prose composition throughout the year.

Course I. is required of Classical and Latin-Scientific Freshmen.

II. HORACE,—Odes and Epodes. *Twice a week (first half-year).* MR. NICOLSON.

CICERO,—Selected Letters. *Twice a week (second half-year).* PROFESSOR MERRILL.

III. PLINY THE YOUNGER,—Selected Letters. *Twice a week (first half-year).* PROFESSOR MERRILL.

TACITUS,—Agricola and Germania. *Twice a week (second half-year).* MR. NICOLSON.

Courses II. and III. are elective for those who have taken Course I., and prospective candidates for preliminary honors in classics are advised to elect both these courses in the Sophomore year. Either of them may be elected for either half-year separately.

IV. LUCRETIUS,—Books 1 and 3, and selections from the other books. *Twice a week (first half-year).* MR. NICOLSON.

CATULLUS. *Twice a week (second half-year).* PROFESSOR MERRILL.

V. TACITUS,—Annals, Books 1, 2, and 4. *Twice a week (first half-year).* PROFESSOR MERRILL.

OVID, TIBULLUS, PROPERTIUS,—Selected Elegies. *Twice a week (second half-year).* MR. NICOLSON.

VI. A course in Roman Satire. ENNIUS, LUCILIUS, VARRO, HORACE,—Selections. *Twice a week (first half-year).* PROFESSOR MERRILL.

PETRONIUS, PERSIUS, SENECA, JUVENAL, APULEIUS,—Selections. *Twice a week (second half-year).* MR. NICOLSON.

Courses IV.–VI. are elective for those who have taken Courses I. and either II. or III. Courses IV. and V. may be elected for either half-year separately; Course VI. only for the entire year. Course V. alternates in successive years with Courses IV. and VI., and is given the present year. Courses IV. and VI. will be given in 1895-96, and Course V. omitted.

VII. LATIN PROSE COMPOSITION. A course in advanced work, with practical exercises and demonstrations, designed to illustrate the theory of Latin rhetoric. *Once a week.* MR. NICOLSON.

Course VII. is elective for those who have taken Course I., and prospective candidates for preliminary honors in Classics are advised to elect it in the Sophomore year.

VIII. LATIN PROSE COMPOSITION. A course in continuation of Course VII., involving original composition in Latin on historical, descriptive, and argumentative themes. *Once a week.* PROFESSOR MERRILL.

Course VIII. is elective for those who have taken Course VII. It will not be given in 1895–96.

IX. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Once a week.* PROFESSOR MERRILL.

X. ROMAN PRIVATE AND SOCIAL INSTITUTIONS. A course of lectures illustrated by photographs, engravings, and lantern-slides. *Once a week.* PROFESSOR MERRILL.

Courses IX. and X. are this year elective for all students. They will hereafter be elective only for candidates approved by the instructor in charge. They are given in alternate years, the former being given this year.

XI. During the second half of alternate years Professor Merrill conducts a series of six conferences of an hour each on the history and methods of classical study and teaching. These conferences

are open, on application to the leader, to all persons interested, but are designed especially for those students in the advanced courses who are intending to teach Latin.

Course XI. is given the present year, but will be omitted in 1895-96.

The following courses are intended primarily for graduate students, but Seniors who are candidates for special honors in Latin at graduation may be admitted to any of them on special application to the instructor.

XII. LATIN SEMINARY. A course of practice in the minute and critical interpretation of some Latin author, and in the preparation and criticism of papers on themes connected with the work of interpretation. The methods followed are based upon those of the German *Seminar*. The authors selected for interpretation vary from year to year. *Twice a week*, each meeting lasting two hours. PROFESSOR MERRILL.

Course XII. is omitted the present year, but will be given in 1895-96.

XIII. METHODS OF RESEARCH. A course of practice in the investigation of simple problems in Roman history and literature, and in the preparation of papers in Latin embodying the results of the research. *Two hours a week* are spent with the instructor for criticism and direction, but the course requires of the student a much greater amount of time in comparison with the other courses, than is indicated by this period. PROFESSOR MERRILL.

XIV. LATIN EPIGRAPHY. A course for beginners, based upon Cagnat's Cours d'Épigraphie Latine, Rushforth's Latin Historical Inscriptions, and Dessau's Inscriptiones Latinæ Selectæ, with constant reference to other works. *Twice a week*. PROFESSOR MERRILL.

XV. BOOK AND JOURNAL CLUB, for the tracing of current progress in Latin literature and Roman archaeology. *Once a week*. PROFESSOR MERRILL.

For the successful prosecution of Courses II.-VI., IX., and X., an ability to read German prose on philological subjects is especially desirable, and for Courses XII.-XV. it is necessary. Students, therefore, who look forward to the study of Latin beyond the required course, and have on admission to college no acquaintance with German, should elect German in the Freshman year.

GREEK.

PROFESSOR VAN BENSCHOTEN; DR. GOODWIN.

I. HERODOTUS. Special attention is given to morphology and the derivation and composition of words. *Four times a week (first term).* DR. GOODWIN.

THUCYDIDES. Greek prose composition. *Four times a week (second term).* DR. GOODWIN.

HOMER. Prosody; Homeric language; the Homeric question. Sight-reading is practiced throughout the year. *Four times a week (third term).* DR. GOODWIN.

Course I. is required of Classical Freshmen.

II. PLATO. Apology, Euthyphro, Crito, Phædo. Lectures on Greek philosophy. A course of collateral reading is required, covering portions of Marshall's History of Greek Philosophy, of Zeller's Socrates, and of Zeller's Plato. *Twice a week (first half-year).* DR. GOODWIN.

AESCHYLUS AND SOPHOCLES. Agamemnon; Oedipus Tyrannus. Lectures on Greek drama, with illustrations. The collateral reading includes Jebb's Primer of Greek Literature, portions of Jevons' History of Greek Literature, of Mahaffy's History of Greek Literature, and of Haigh's Attic Theatre. *Twice a week (second half-year).* DR. GOODWIN.

Course II. is elective for those who have taken Course I.

III. THE LIFE AND LANGUAGE OF THE GREEKS. *Once a week.* PROFESSOR VAN BENSCHOTEN.

Course III. is elective for those who have taken Course I., and who take or have taken Course II.

IV. GREEK COMEDY. The Frogs and the Acharnians of Aristophanes. GREEK TRAGEDY. Aeschylus, Sophocles, Euripides. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

V. GREEK PHILOSOPHY. The Clouds of Aristophanes; Aristotle's Poetics; Xenophon; Euripides. *Three times a week.* PROFESSOR VAN BENSCHOTEN.

In connection with Courses IV. and V., weekly meetings are held for special studies in Greek life, language, and literature.

Courses IV. and V. are elective for those who have taken Courses I.-III., and are given in alternate years. Course IV. is given the present year.

VI. BIBLICAL GREEK. The Gospels. The text used is Scrivener's New Testament in Greek, with the Revisers' Readings. Collateral studies; texts and translations. *Twice a week.* PROFESSOR VAN BENSCHOTEN.

Course VI. is elective for those who have taken Courses I. and II.

VII. LYRIC POETRY. PINDAR. *Three times a week (first term).* PROFESSOR VAN BENSCHOTEN.

LUCIAN. *Three times a week (second term).* PROFESSOR VAN BENSCHOTEN.

PAUSANIAS; NEO-HELLENIC,—with collateral work on the geography and topography of Greece and on epigraphy. *Three times a week (third term).* PROFESSOR VAN BENSCHOTEN.

One meeting each week is devoted to special advanced studies of the nature indicated under Courses IV. and V.

Course VII. is elective for those who have taken either Course IV. or Course V.

VIII. GREEK SEMINARY. Greek Archæology and Art. *Once (counting as twice) a week.* PROFESSOR VAN BENSCHOTEN.

Course VIII. is elective for those who have taken Course III.

It is very desirable that those who elect advanced courses in Greek should be able to read German prose on philological subjects.

GERMAN.

DR. A. W. JAMES.

I. Otis' Elementary German, Stern's Studien und Plaudereien, Storm's Immensee, Riehl's Fluch der Schönheit. *Three times a week.*

For rules regarding the election of I. German, see page 37.

II. Freitag's Aus dem Klosterleben im zehnten Jahrhundert, Schiller's Wilhelm Tell, Lessing's Minna von Barnhelm, Goethe's Hermann and Dorothea. Collateral readings in nineteenth century authors:—Freitag, Gutzkow, Auerbach, Eichendorff, Spielhagen, and others. For sight reading, and also for exercises in German conversation, Storme's Easy German Reading is used. A few lectures in German on the authors read are given by the instructor. *Three times a week.*

Course II. is elective for those who have taken Course I.

III. Goethe's Faust and Egmont. Collateral readings in Goethe and contemporary authors. Reports by members of the class. Lectures. *Twice a week.*

Course III. is elective for those who have taken Course II. It will be omitted in 1895-96.

IV. Schiller's Wallensteins Lager, Piccolomini, and Wallensteins Tod. Collateral readings. Lectures. *Twice a week.*

Course IV. is elective for those who have taken Course II. It is omitted this year.

V. German Prose Composition, based on von Jagemann's German Prose Composition and von Jagemann's German Syntax. Oral translation of an easy English text into German. *Once a week.*

Course V. is elective for those who have taken Course II.

VI. Middle High German. Paul's Mittelhochdeutsche Grammatik, Nibelungenlied, Walther von der Vogelweide, Wolfram von Eschenbach. The Old High German Denkmäler, Hildebrandslied, Muspilli, Ludwigslied, and extracts from Otfrid and others are also interpreted for the class by the instructor. *Once a week.*

Course VI. is elective for those who have taken Course III. or Course IV.

ROMANCE LANGUAGES.

PROFESSOR KUHNS.

I. FRENCH. Van Daell,—Introduction to the French Language; De Maistre,—La Jeune Sibérienne, Le Lépreux de la Cité d'Aoste; Erckmann-Chatrian;—Waterloo; Victor Hugo,—Bug Jargal, Quatre-vingt-treize; Halèvy,—L'Abbé Constantin. Part of the above books are read at sight. There is also personal drill in pronunciation. *Three times a week.*

For rules regarding the election of I. French, see page 37.

II. FRENCH. Whitney's Grammar, Part II, and Roulier's Second Book of French Composition. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. Books read this year are Balzac,—Le Curé de Tours; Pierre Loti,—Pêcheur d'Islande; Beaumarchais,—Le Barbier de Seville; Musset,—Selections; Victor Hugo,—Hernani; Racine,—Andromaque; Molière,

—Le Misanthrope; Feuillet,—Le Roman d'un Jeune Homme Pauvre; Ohnet,—Le Maître de Forges. *Twice a week.*

Course II. is elective for those who have taken Course I.

III. FRENCH. French conversation. Bercy,—Le Français Pratique; French Fairy Tales; Anecdotes Nouvelles. During the year informal lectures on European travel are given in French. *Once a week.*

Course III. is elective for Sophomores who have taken Course I. and have received special permission from the instructor.

IV. FRENCH. French literature in the seventeenth, eighteenth, and nineteenth centuries. The following books are read, but not translated, questions on the subject matter being put and answered in French:—Corneille,—Le Cid; Racine,—Phèdre; Molière,—Le Tartuffe; La Fontaine,—Fables; Boileau,—L'Art Poétique; Voltaire,—Mérope; Chateaubriand,—Atala; Lamartine,—selections; Victor Hugo,—Hernani, and lyrical poetry; Musset,—comedies, stories, and poetry; Balzac,—Eugénie Grandet.

There is at each recitation translation of English into French. Further, frequent lectures in French are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries.

In addition, each member of the class must, for each half-year, select one of the following courses of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of the author selected.

First half-year:—

1. Readings in early French drama,—Adamsspiel, Garnier, De Villiers, Mairet, Prince de Conti.
2. Corneille,—Horace, Polyeucte, Le Menteur, Rodogune.
3. Racine,—Athalie, Les Plaideurs, Bérénice, Mithridate.
4. Racine,—Bajazet, Iphigénie, Britannicus, Esther; Sophocles,—Oedipus Tyrannus (in translation).
5. Molière,—Les Précieuses Ridicules, L'École des Femmes, Le Médecin malgré lui, L'Avare.
6. Molière,—Le Bourgeois Gentilhomme, Le Malade Imaginaire, George Dandin; Shakspere,—As You Like It.
7. La Fontaine,—Fables; Gay,—Fables.
8. Marot and Ronsard.
9. Voltaire,—Dramas and History.
10. Rousseau,—La Nouvelle Héloïse.

11. Rousseau,—Les Confessions.

Second half-year:—

1. St. Pierre,—Paul et Virginie; Mme. de Stael,—L'Allemagne.

2. Chateaubriand,—René, Le dernier Abencerage, selections from Le Génie du Christianisme.

3. Lamartine,—Jocelyn.

4. Victor Hugo,—Selected Dramas.

5. Victor Hugo,—Lyric and Epic Poetry.

6. Victor Hugo,—Selected Novels.

7. Musset,—Comedies and Nouvelles.

8. Musset,—Lorenzaccio and La Confession d'un Enfant du Siècle.

9. Balzac,—Le Père Goriot, César Birotteau.

10. George Sand, — Jacques, La Mare au Diable, La petite Fadette.

11. The modern novel,—Flaubert, Maupassant, Daudet, Bourget. *Twice (counting as three times) a week.*

Course IV. is elective for those who have taken Courses I.-III.

V. OLD FRENCH. Constans,—Chrestomathie de l'ancien Français. Exercises in Old French etymology, based on La Vie de Saint Alexis.

Each member of the class must select one of the following subjects for investigation, and write a thesis on the result of his study:—

1. Miracle and Mystery Plays.

2. Aymeri de Narbonne and the Geste de Guillaume.

3. Chanson de Roland and the Geste du Roi. *Once (counting as twice) a week.*

Course V. is elective for those who have taken Courses I.-IV.

VI. SEMINARY. Special investigations in French language and literature. The course is open to those who have taken all the preceeding courses. It is omitted this year.

VII. ITALIAN. Italian Principia, I. De Amicis,—Gli Amici di Collegio, Cuore; Manzoni,—I Promessi Sposi. In addition to the regular work by the class in translating modern prose, the instructor will translate and interpret to the class the Inferno and Purgatorio of Dante, the last half hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rosetti's Shadow of Dante. *Twice a week.*

Course VII. is elective for Sophomores who have taken I. French.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to take the equivalent of Courses I. and II. in French, and I. and II. in German. Such of these courses as they have not pursued before entering college, they must take as speedily as possible after entering.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's Primer of English Literature, with lectures. *Twice a week.*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspere's Hamlet; selections from Pope's Satires. *Once a week.*

3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose either one of the courses in Winchester's Five Short Courses of Reading in English Literature. These courses may be briefly outlined as follows:—

(1.) 1559-1674. Marlowe's Faustus and Green's Friar Bacon; Shakspere's Henry IV., As You Like It, Antony and Cleopatra, Winter's Tale, and ten sonnets; Bacon's Essays—selections; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, Paradise Lost (Book I.), Samson Agonistes.

(2.) 1660-1745. Dryden's Absalom and Achitophel; Addison's Essays—selections; Steele's Essays—selections; Swift's Tale of a Tub, Argument against Abolishing Christianity, Journal to Stella (I.-VII.).

Johnson's Lives of Dryden, Swift, Pope; Thackeray's Lectures on the English Humourists.

(3.) 1745-1789. Gray's Elegy in a Country Churchyard, Ode on a Distant Prospect of Eton College; Goldsmith's Deserted Village,

Retaliation, and Vicar of Wakefield; Johnson's Vanity of Human Wishes, Rasselas; Burke's two American Speeches, Reflections on the Revolution in France—the first half, Letter to a Noble Lord; Cowper's Task—Book I.; Burns—selected poems.

Leslie Stephen's Life of Johnson, Dobson's Life of Goldsmith, Morley's Life of Burke.

(4.) 1789-1832. Wordsworth—selected poems; Coleridge's Ancient Mariner, Love, Biographia Literaria—selected chapters; De Quincey's Recollections of Coleridge and Wordsworth, The Affliction of Childhood, The English Mail Coach; Lamb's Essays of Elia —selections; Byron's Childe Harold (Canto IV.); Shelley—selected poems; Keats—selected poems.

(5.) 1832-1880. Carlyle's Sartor Resartus (Book II., and Book III., chapter 8), Essay on Burns; Ruskin's Sesame and Lilies, Fors Clavigera (Letter V.); Matthew Arnold's Culture and Anarchy (chapter I.), selected poems; Browning—selected poems; Tennyson—selected poems.

Course I. is elective for Juniors.

II. ENGLISH LITERATURE of the Victorian Period, 1832-1880. Carlyle, Ruskin, Matthew Arnold, Tennyson, and Browning. Critical reading and discussion; lectures. *Twice (counting as three times) a week.*

III. ENGLISH LITERATURE of the Period of Queen Anne, 1700-1745. DeFoe, Steele, Addison, Swift, Pope. Critical reading and discussion; lectures. *Twice (counting as three times) a week.*

Courses II. and III. are elective (with some restrictions) for those who have taken Course I. Course II. will be omitted in 1895-96. Course III. is omitted the present year.

IV. THE ELEMENTS OF LITERARY CRITICISM. A course of lectures upon the essential elements and the various forms of literature, with practical exercises in the application of critical principles. *Once a week.*

Course IV. is elective for those who have taken Course I.

V. THE HISTORY OF ENGLISH LITERARY CRITICISM for the period 1800-1850, with special reference to the work of Coleridge, and to the development of the English Critical Reviews. *Once a week.*

VI. THE ELIZABETHAN DRAMA. A survey of the origins of the Elizabethan drama with some notice of the principal works of Shakspere's immediate predecessors, followed by more careful study of a

somewhat large group of Shakspere's most important dramas. *Once a week.*

Courses V. and VI. are open to graduate students only.

VII. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior must write an argument for debate before his class, and either four essays or two public orations. All written work receives the personal criticism of the instructor, and the orations are also rehearsed before the Professor of Elocution.

ENGLISH LANGUAGE.

PROFESSOR MEAD.

I. A. ENGLISH LANGUAGE. General History of the English Language, with lectures and illustrative examples from Anglo-Saxon. Lounsbury's History of the English Language, Part I., and Cook's First Book in Old English. *Once a week.*

B. ENGLISH LITERATURE. Selected essays of Macaulay, with extracts from the authors discussed in the Essays, and collateral readings in English History. *Once a week.*

Freshmen are required to take either Course I. A. or Course I. B.

II. RHETORIC. Hill's Principles of Rhetoric. The members of the class are required to write, in addition to their regular essays, weekly exercises illustrating and applying the principles laid down in the text-book. These exercises are discussed and criticised by the class. As a study in modern prose style, the class read and discuss in the class-room the essays by Macaulay and Carlyle on Croker's edition of Boswell's Life of Johnson, and Thackeray's Lectures on the English Humourists of the Eighteenth Century, and analyse the addresses in Baker's Specimens of Argumentation. *Three times a week (first half-year).*

Course II. is required of Sophomores.

III. ENGLISH COMPOSITION. A. Each member of the Freshman class is required to present frequent written exercises, based upon the collateral reading in Course I. A. or Course I. B. The theory of composition is treated in a brief course in elementary rhetoric.

B. Sophomores write six essays during the year on subjects approved by the professor. Each member of the class meets the professor privately for individual criticism.

C. Juniors write on subjects of their own selection, and choose one of the two following courses:—Course I., consisting of five general, and two departmental essays; Course II., consisting of two general, and four departmental essays. The departmental essays must be written on subjects related to some department of college work. Appointments for individual criticism are made for each member of the class.

IV. ANGLO-SAXON. 1. Bright's Anglo-Saxon Reader, with an introductory course in Cook's First Book in Old English. Sievers' Old English Grammar is used for reference. Skeat's English Etymology is taken as the basis for studies in derivations. For exercises in sight translation, Plummer's selections from the Anglo-Saxon Chronicle are read in class. As collateral reading, Freeman's Old English History and Gardiner's Student's History of England are recommended. The history of Anglo-Saxon literature is treated in a course of weekly lectures.

2. Each member of the class is required, in addition, to select one of the following courses for private reading:—

(1.) King Alfred's Pastoral Care.

(2.) The Blickling Homilies, and selections from Wulfstan's Homilies.

(3.) The Anglo-Saxon Chronicle, entire.

(4.) Cynewulf's Elene or Cædmon's (?) Exodus and Daniel. *Three times a week.*

Course IV. is elective for Sophomores who have taken Course I. A. It must be taken by all who intend to elect the courses in Early English, or to take a special honor in English. It will be omitted in 1895-96.

V. EARLY ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's Specimens of Early English. The historical development of the literature is discussed in a course of weekly lectures. For collateral reading, ten Brink's History of English Literature is recommended.

2. Each member of the class elects one of the following courses of collateral reading, and presents at least one thesis on a topic requiring special investigation:—

(1.) Selections from the Arthurian Romances, with a study of some of their sources:—Nennius, Historia Britonum; Geoffrey of Monmouth, Historia Regum Brittaniæ; the Romance of Merlin;

Malory's Morte Darthur (edited by Sommer); Sir Gawayne and the Green Knight.

(2.) Selections from the Charlemagne Romances:—G. Paris, Histoire poétique de Charlemagne; La Chanson de Roland (edited by L. Gautier); the English Charlemagne Romances.

(3.) Selections from Chaucer's Canterbury Tales and minor poems.

(4.) Selections from the metrical chroniclers.

(5.) Selections from religious prose literature, the Ancren Riwle, Dan Michel's Ayenbite of Inwyt, etc. *Three times a week.*

Course V. is elective for Juniors who have taken Course IV.

Courses IV. and V. are given in alternate years, Course IV. being given this year.

VI. BEOWULF. The poem is read as a piece of literature, rather than as a text for the study of grammar and etymology. Each member of the class presents at the end of the year a thesis on a topic assigned by the professor. *Once a week.*

Course VI. is omitted this year.

VII. GOTHIC. A graduate course, with especial reference to English etymology. The books used include Wright's Gothic Language Primer, Balg's translation of Braune's Gotische Grammatik, Skeat's Elements of English Etymology, Balg's Comparative Glossary of the Gothic Language.

Course VII. is omitted this year.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Members of the Freshman class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six, declamations in the year.

II. THEORY OF ELOCUTION. The work of the first term is given to the mechanics of speech and to the theories of vocal expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The second term is devoted to the theory of gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illus-

trations of the subject are given. The text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation, to be delivered before the class for criticism. *Twice a week.*

Course II. is elective for Juniors.

HISTORY.

ASSOCIATE PROFESSOR DENNIS.

I. OUTLINES OF GENERAL HISTORY. The course includes a sketch of the origin and theory of the state; a survey of the ancient civilizations of the East, the institutions of Greece and Rome, the Christian Church before the hierarchic centuries, the Holy Roman Empire and the fusion of Teutonic custom with Roman law, the origin and development of modern European state systems. Lectures and required parallel reading. *Four times a week (first half-year).*

Course I. is elective for Juniors.

II. HISTORY OF ENGLAND AND FRANCE. The course extends from the Roman conquests of Gaul and Britain to the close of the Napoleonic wars, and is concerned with the forces that issued from the national sympathies and antipathies of the two peoples, with the long processes by which absolutism was built up in France and limited in England, and, in general, with the organic life of the two nations viewed in their singularity and inter-dependence. Supplementary readings. *Twice a week.*

Course II. is elective for Juniors.

III. CONSTITUTIONAL HISTORY. A study in the origin and development of constitutional government. Lectures are given upon the political systems and speculations of the ancient and mediæval world; upon the genesis and growth of the English constitution; and upon the fabric and application of the American constitution. *Four times a week (second half-year).*

Course III. is elective for Juniors.

IV. POLITICAL AND ECONOMIC HISTORY OF THE UNITED STATES. The course is introduced by a brief survey of the period of

colonization, and of the struggle between the French and English for possession. An extended examination of the political and economic life of the United States during the first century of the constitution follows. Papers and special reports are required from each member of the class upon such topics as the rise of parties, the struggle for neutrality and commercial independence, the problem of slavery extension, etc. *Twice a week.*

Course IV. is elective for Juniors. It is omitted this year, but will be given in 1895-96.

V. COMPARATIVE POLITICS. A comparison of parliamentary and congressional government. The course is conducted upon the seminary plan. *Twice a week.*

Course V. is elective for Juniors. It is omitted this year, but will be given in 1895-96.

ECONOMICS AND SOCIAL SCIENCE.

ASSOCIATE PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General Introductory Course. The ground to be covered corresponds quite closely to that covered by Walker's Political Economy (advanced course) or Andrews' Institutes of Economics. Recitations, with reports by members of the class on special topics. *Three times a week (second half-year).*

Course I. is required of Juniors.

II. PRINCIPLES OF ECONOMIC SCIENCE. Advanced Historical and Theoretical Course. This course includes a brief historical view, on the basis of Ingram's History of Political Economy, and critical studies in the writings of some of the great economists, Smith, Malthus, Ricardo, Senior, Mill, Cairnes, Jevons, Marshall. *Four times a week (first half-year).*

Course II. is elective for those who have taken Course I.

III. PUBLIC FINANCE. The work of this course is based on Bastable's Public Finance. A number of lectures are given, and members of the class present reports. *Four times a week (first half-year).*

Course III. is elective for those who have taken Course I.

IV. APPLIED ECONOMICS. A course of lectures on economic problems of the present. The discussions cover such questions as

the monetary situation, the railway problem, the tariff, taxation, labor, socialism, banking. *Four times a week (second half-year).*

Course IV. is elective for those who have taken Course I.

V. ECONOMIC SEMINARY for original individual investigations in Economics, Finance, or Statistics. *Twice a week.*

Course V. is elective for those who have taken Course I., and who take or have taken Courses II. and IV.

PHILOSOPHY.

PROFESSOR ARMSTRONG; MR. SHAW.

I. LOGIC. Jevons-Hill's Elements of Logic. The aim of this course is to ground the student in the fundamental forms of reasoned thinking, deductive and inductive alike. Logic is viewed not merely as a preliminary philosophical discipline, but as preparatory to all later and more advanced work. The study of the text-book is emphasized by numerous examples in logical praxis. *Twice a week (second half-year).* MR. SHAW.

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities, as Ladd's Outlines of Physiological Psychology, McCosh's Psychology, James's Principles of Psychology, and Baldwin's Handbook of Psychology. Instruction is not confined to the text-book, but lectures and discussions are used to explain and supplement it. These are introduced especially in illustration of the more recent psychological investigations and of positions still under debate. *Three times a week (first half-year).* PROFESSOR ARMSTRONG.

Course II. is required of Juniors.

III. PHYSIOLOGICAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology; lectures, discussions, simple demonstrations and experiments. This course is planned as a supplement to Course II. and runs parallel with it. The subjects treated embrace the elements of psychology from the physiological and experimental standpoint. *Twice a week (first half-year).* MR. SHAW.

Course III. is elective for Juniors.

IV. ADVANCED LOGIC. Mill's System of Logic; lectures, recitations, and discussions. This course is devoted chiefly to the consideration of inductive logic, especially in its applications to scientific reasoning and discovery. It begins with a brief discussion of the

history of logic, and may conclude, if time permit, with some account of the history of science. *Once a week.* MR. SHAW.

Course IV. is elective for Juniors.

V. INTRODUCTION TO PHILOSOPHY. Stuckenberg's Introduction to the Study of Philosophy, with collateral readings in Ladd's Introduction to Philosophy. *Twice a week (first half-year).* PROFESSOR ARMSTRONG.

Course V. is elective for Juniors.

VI. ANCIENT AND MEDIÆVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Twice a week (second half-year).* PROFESSOR ARMSTRONG.

Course VI. is elective, under ordinary circumstances, for those who have taken Course V.

VII. HISTORY OF MODERN PHILOSOPHY. An outline history of the development of philosophic thought in the modern era. Falckenberg's History of Modern Philosophy, with lectures and references to other standard histories, as Schwegler, Ueberweg, Erdmann, Windelband; recitations and discussions on the systems considered. *Three times a week (first half-year).* PROFESSOR ARMSTRONG.

Course VII. is elective, under ordinary circumstances, for those who have taken Courses V. and VI.

VIII. ADVANCED PSYCHOLOGY. James's Principles of Psychology with references to other authorities. This course is designed for honor students and for others who may wish to make a special study of modern psychology. It is given only in those years when there is need or demand for advanced work, and is open only to students who make special application to the instructor for admission. *Twice a week (second half-year).* PROFESSOR ARMSTRONG.

Course VIII. is elective for graduate students, for Seniors, and for Juniors who are specializing in psychology with a view to honors in philosophy.

IX. PHILOSOPHICAL SEMINARY. The subject varies from year to year. This year it is the Philosophy of the Eighteenth Century Illumination in France and Germany. In 1895-96 it is proposed to consider the philosophy of Kant and Lotze. *Twice (counting as three times) a week (second half-year).* PROFESSOR ARMSTRONG.

Course IX. is elective for graduate students, and for Seniors who have taken Courses V., VI., and VII.

ETHICS AND EVIDENCES OF CHRISTIANITY.

PRESIDENT RAYMOND.

I. ETHICS. Lectures upon the chief subjects in philosophical ethics, with a brief study of Christian ethics. Herbert Spencer's Data of Ethics and a part of Martineau's Types of Ethical Theory are reviewed in the class. *Three times a week (first term).*

Course I. is required of Seniors.

II. EVIDENCES OF CHRISTIANITY. Lectures, with collateral readings on all the important topics. *Three times a week (second term).*

Course II. is required of Seniors.

III. THEISM. Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Once (counting as twice) a week (second half-year).*

Course II. is elective for those who have taken Courses I., II., V.-VII. in Philosophy.

MATHEMATICS AND ASTRONOMY.

PROFESSOR VAN VLECK; MR. W. J. JAMES; DR. EICHELBERGER.

I. SOLID GEOMETRY. Chauvenet's Elementary Geometry. *Four times a week (first third of the year).* DR. EICHELBERGER.

TRIGONOMETRY. Wells' Plane and Spherical Trigonometry; Newcomb's Logarithmic Tables. *Four times a week (second third of the year).* DR. EICHELBERGER.

ANALYTICAL GEOMETRY,—elementary course. Wentworth's Analytical Geometry. *Four times a week (last third of the year).* DR. EICHELBERGER.

Course I. is required of Classical and Latin-Scientific Freshmen.

II. ALGEBRA. Wells' College Algebra. *Three times a week (first term).* PROFESSOR VAN VLECK.

ANALYTICAL GEOMETRY,—advanced course. *Three times a week (second and third terms).* PROFESSOR VAN VLECK.

Course II. is elective for those who have taken Course I. It is important as a preparation for all the higher courses in mathematics, and is recommended to those who expect to teach mathematics.

III. APPLICATIONS OF TRIGONOMETRY to Surveying, Navigation, and elementary problems in Astronomy. Wentworth's Navigation and Surveying, with instrumental practice. *Twice a week.* DR. EICHELBERGER.

Field work on Saturday will occasionally take the place of one of the scheduled exercises in this course.

Course III. is elective for those who have taken Course I.

IV. DIFFERENTIAL AND INTEGRAL CALCULUS,—elementary course. Osborne's Treatise on Differential and Integral Calculus. *Twice a week.* MR. JAMES.

Course IV. is elective for those who have taken Course I.

Prospective candidates for special honors in mathematics at graduation are advised to take Course IV. in the Sophomore year. Furthermore, those electing Courses III.-VII. in physics are advised to take it, if they have not already done so. It must have been taken by those electing Courses VIII.-X. in physics.

V. INTEGRAL CALCULUS, including DIFFERENTIAL EQUATIONS. *Three times a week.* MR. JAMES.

Course V. is elective for those who have taken Course IV.

VI. MODERN METHODS IN GEOMETRY. *Twice a week.* PROFESSOR VAN VLECK.

Course VI. is elective for those who have taken Courses II. (or IV. as in 1893-94,) and IV.

VII. MECHANICS. Ziwet's Mechanics. *Three times a week.* PROFESSOR VAN VLECK.

Course VII. is elective for those who have taken Courses II. (or IV. as in 1893-94,) and IV.

Those who elect the advanced courses in physics are advised to take Course VII.

VIII. ASTRONOMY. A general course, requiring only elementary mathematics. Young's Elements of Astronomy; Clerke's History of Astronomy. *Twice a week.* PROFESSOR VAN VLECK.

Course VIII. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

IX. SPHERICAL AND PRACTICAL ASTRONOMY,—based on Chauvenet's Manual, with practical exercises in the observatory. *Twice (counting as three times) a week.* PROFESSOR VAN VLECK and DR. EICHELBERGER.

Course IX. is elective for those who have taken Courses IV. and VIII. It is omitted this year, but will be given in 1895-96.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course based on Everett's Text-book of Physics, involving only elementary mathematics. Mechanics, Heat, and Electricity. *Four times a week (first term); twice a week (first half of second term).* PROFESSOR ROSA. Sound and Light. *Twice a week (second half-year).* PROFESSOR CRAWFORD.

Course I. is required of Classical and Latin-Scientific Sophomores and of Scientific Freshmen.

II. ELEMENTARY PRACTICAL PHYSICS,—involving such experiments as are described, for example, in Hall and Bergen's Text-book of Physics, or Worthington's Physical Laboratory Practice. Each exercise occupies 2½ hours. *Twice a week.* PROFESSOR CRAWFORD.

Course II. is elective for those who take, or have taken, Course I.

III. 1. HEAT. Garnett's Elementary Treatise on Heat. *Three times a week (first term).*

2. ELECTRICITY. Poyser's Magnetism and Electricity. *Three times a week (second and third terms).*

Course III. is elective for those who have taken Course I. It is omitted this year.

IV. SOUND AND LIGHT. A course of lectures, mainly theoretical, but with frequent experimental illustrations, covering in an elementary manner simple harmonic motion, the principal phenomena of sound, geometrical optics, and the wave theory of light. *Three times a week.* PROFESSOR CRAWFORD.

Course IV. is elective for those who have taken Course I. It will be omitted in 1895-96.

V. ELEMENTARY APPLIED ELECTRICITY. In the first half-year, S. P. Thompson's Lessons is used. In the second half-year, the course consists of lectures giving the modern theory of the electromagnet, and applying it to dynamos, motors, and other electrical apparatus. This course is, in the main, theoretical rather than technical. *Twice a week.* PROFESSOR ROSA.

Course V. is elective for those who have taken Course I. It will be omitted in 1895-96.

VI. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals

as those of Kohlrausch, Glazebrook and Shaw, and Stewart and Gee. Each exercise occupies 2½ hours. *Twice or three times a week.*

Course VI. is elective for those who have taken Course I.

VII. PRACTICAL PHYSICS. A continuation of Course VII. In the department of electricity opportunity is afforded for some shop-work, and for extended investigation of the problems connected with transformers and with alternating currents in general. Each exercise occupies 2½ hours. *Twice or three times a week.*

Course VII. is elective for those who have taken Course VI.

In Courses VI. and VII. the work in mechanics, sound, light, and heat, is carried on in the physical laboratory in Observatory Hall, under Professor Crawford; the work in electricity, in the electrical laboratory, under Professor Rosa.

Students taking Courses III.-VII. are advised to take, if they have not already taken, Course IV. in mathematics.

VIII. MATHEMATICAL THEORY OF ELECTRICITY. A course of lectures on the theory of Electricity and Magnetism. This course is based upon Emtage's Mathematical Theory of Electricity and Magnetism. The differential and integral calculus is freely used, and an acquaintance with differential equations and solid analytical geometry is also helpful to those taking the course. *Twice a week.* PROFESSOR ROSA.

Course VIII. is elective for those who have taken the equivalent of the second part of Course III. or the first part of Course V. It will be omitted in 1895-96.

IX. DYNAMO-ELECTRIC MACHINERY. A continuation of Course V. S. P. Thompson's Dynamo-Electric Machinery. *Twice a week.* PROFESSOR ROSA.

Course IX. is elective for those who have taken Course V. It is omitted this year.

X. ALTERNATING CURRENTS OF ELECTRICITY. A course of lectures on the theory of periodic currents, based on Fleming's Alternate Current Transformer. *Twice a week.* PROFESSOR ROSA.

Course X. is elective for those who have taken either Course III. or Course V., and Course IV. in mathematics. It is omitted this year.

XI. JOURNAL MEETING. The instructors of the department meet the graduate students for the purpose of reporting and discussing articles from the current English, French, and German journals of general physics and electricity. *Once a week.*

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY; DR. LANGWORTHY.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. Each student performs a considerable number of experiments in the laboratory. *Twice a week, from the beginning of the second term to the mid-year; three times a week during the second half-year.* PROFESSOR ATWATER and PROFESSOR BRADLEY.

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen.

II. ADVANCED ELEMENTARY CHEMISTRY. A course of lectures on the general principles and some of the applications of chemistry. It is supplementary to Course I. *Once a week.* PROFESSOR ATWATER.

Course II. is elective for those who have taken Course I., and is a required introduction to the higher electives.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies 2½ hours. *Twice or three times a week.* PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course I. and are taking Course II.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies 2½ hours. *Twice or three times a week.* PROFESSOR ATWATER and DR. LANGWORTHY.

Course IV. is elective for those who take, or have taken, Courses II. and III.

V. ORGANIC CHEMISTRY. Lectures on the principles of organic chemistry, as illustrated by the derivatives of methane and benzene. *Twice a week.* PROFESSOR BRADLEY.

Course V. is elective for those who have taken Course III.

VI. PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Special attention is given to the chemistry of the animal body. *Twice a week (second half-year).* PROFESSOR ATWATER.

Course VI. is elective for those who take, or have taken, Course II. It is desirable that those who elect it should also elect Course V.

VII. ORGANIC CHEMISTRY. A practical course. The first term is devoted to practice in the preparation of compounds of carbon. During the second and third terms students are trained in methods of organic research. It is desirable that this course be taken in connection with, or after, Course V. Each exercise occupies 2½ hours. *Twice or three times a week.* PROFESSOR BRADLEY.

Course VII. is elective for those who have taken Course III.

VIII. PHYSIOLOGICAL CHEMISTRY. A practical course in the preparation of organic compounds of interest in physiological chemistry. Each exercise occupies 2½ hours. *Twice or three times a week.* PROFESSOR ATWATER.

Course VIII. is elective for those who take, or have taken, Courses V. and VI., and may be elected for the second half-year alone.

IX. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Twice a week.* PROFESSOR BRADLEY.

Course IX. is elective for those who have taken Course III.

X. CHEMICAL SEMINARY. A systematic course of instruction and reading in biological chemistry for graduate students who are engaged in researches in the laboratory. *Three times a week.* PROFESSOR ATWATER.

Course X. is also elective for undergraduates who take, or have taken, Courses V. and VI.

CHEMICAL RESEARCH. Laboratory courses devoted to original investigation in physiological, physical, and organic chemistry are provided for graduate students. Ability to read both French and German with reasonable facility is essential.

SPECIAL INVESTIGATIONS IN THE CHEMICAL LABORATORY. During a number of years past, investigations upon the chemistry of food and nutrition have been carried on in the chemical laboratory under the auspices of the U. S. Department of Labor in Washington, and in connection with the Storrs, Conn., Agricultural Experiment Station. Those in coöperation with the Department of Labor, have to do with the economy of the food of man in relation to his useful work, while those in connection with the Experiment Station, are devoted to the chemistry of animal nutrition in general.

The investigations of the chemistry of food have received a fresh impetus as a result of the action of Congress, which, at its last session, provided an appropriation of $10,000 for an inquiry into the

economy of the food of the people of the United States. The responsibility of the inquiry rests with the Secretary of Agriculture, who has placed the immediate direction in the charge of Professor Atwater, as Special Agent in the Office of Experiment Stations of the Department of Agriculture. The general character of the inquiry is to be similar to that of which the beginnings have been made in the chemical laboratory of Wesleyan. The work is distributed among a number of institutions in different parts of the country. Some of the research is prosecuted here.

The especial inquiries now going on in the chemical laboratory include those with the respiration and bomb calorimeters, and studies of dietaries. They have to do with the application of the laws of the conservation of matter and of energy to the living organism, and are at the same time of the kind which are fundamental to the best understanding of the laws of nutrition. Besides Professors Atwater and Rosa, the following gentlemen are sharing in these investigations and the work connected with them: C. D. Woods, B. S., C. F. Langworthy, Ph. D., Percy N. Evans, Ph. D., R. L. Slagle, Ph. D., H. M. Smith, M. A., A. P. Bryant, B. S., A. W. Smith, B. S., H. A. Torrey, B. A.

GEOLOGY.

PROFESSOR RICE.

I. GEOLOGY. ELEMENTARY COURSE. Lectures and recitations. A general survey of the field of the science, in which special prominence is given to dynamical geology. *Four times a week (second half-year).*

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II. GEOLOGY. ADVANCED COURSE. The first few weeks are occupied with a very brief course of lectures on rocks and their constituent minerals, intended especially to familiarize the students with the minerals and rocks likely to be encountered on the excursions. During the greater part of the year, informal and conversational recitations in LeConte's Elements of Geology are held three times a week. Historical geology and paleontology are treated much more fully than in Course I. Special topics for study, with bibliographical references, are from time to time assigned to each member of the class. Lectures on these topics are given by the members of the

class, and are criticized and discussed. The Saturdays (except in winter) are generally occupied by excursions. In each excursion, one member of the class is appointed to present a report on the phenomena observed, in the form of a lecture to the class at its next meeting. *Three (counting as four) times a week.*

Course II. is elective for those who have taken Course I.; but it is very desirable that students taking this course should have taken also the elective courses in Physical Geography, Zoology, and Mineralogy.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, with Geikie's Elementary Lessons as text-book. *Three times a week (first term).*

Course III. (in connection with II. Biology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

IV. MINERALOGY. This course comprises three parts:—1. a course of lectures on crystallography and optical mineralogy, with practical exercises in the study of models and crystals; 2. a course of laboratory work in determinative mineralogy; 3. a course of lectures on descriptive mineralogy. The first part of the course occupies the first half-year, the second part occupies the remainder of the second term, and the third part occupies the third term. The works of Dana and Brush, and Williams' Elements of Crystallography, are used for reference. *Three times a week.*

Course IV. is elective for all who have taken I. Mathematics, I. Physics, and I. Chemistry.

V. Additional work is provided for graduate students, and in some cases for undergraduates. This may include courses of reading in various branches of geological science, field-work, or laboratory work in optical mineralogy and lithology.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Four times a week (first half-year).*

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II. GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the fern, the earthworm, and the frog, which are used as illustrating the general structure and physiology of plants and animals. This course is designed as an introduction to the studies of Botany, Zoology, and Physiology. *Three times a week (first eight weeks of the second term).*

BOTANY. Practical work in the study of structural and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. Gray's Lessons is used, accompanied by lectures on subjects not treated in the text-book. The last two months are devoted to the analysis and description of flowers. *Three times a week (from March 1.).*

Course II. (in connection with III. Geology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

III. ZOOLOGY. Lectures, recitations, and class dissections. Typical examples, illustrating the various groups of the animal kingdom, are described, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Twice a week.*

Course III. is elective for Classical Juniors, and for Latin-Scientific and Scientific Sophomores.

IV. PRACTICAL BIOLOGY. The design of the courses in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mould, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies 2½ hours. *Twice or three times a week.*

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY,—advanced course. The second year is devoted to experiments in physiology and to the study of histology, bacteriology, embryology, and mammalian anatomy. Each exercise occupies 2½ hours. *Twice or three times a week.*

Course V. is elective for those who have taken Course IV.

VI. BACTERIOLOGY. A course of lectures giving the history of bacteriology from the seventeenth century to the present time. *Once a week.*

Course VI. is elective for those who take or have taken Course IV. It is omitted this year.

VII. EVOLUTION. A course of lectures and recitations giving an outline of the general theories of evolution. *Twice a week (second half-year).*

Course VII. is elective for Juniors. It will be omitted in 1895-96.

Candidates for special honors in biology are especially recommended to take at least one summer course in the marine laboratory at Cold Spring Harbor.

GRADUATE INSTRUCTION. The laboratory work of the graduate student is of a different character from that of the undergraduate. Any undergraduate work that may have been omitted in his previous course is first completed, but the student is more independent, and his work is more advanced. In all cases it is expected that there will be some work of independent investigation, either on the part of the student alone, or in conjunction with the instructor.

Tabular Statement of Undergraduate Courses of Study.

Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the Courses of Instruction in that department.

The Arabic numerals indicate the average number of exercises per week for the year in the respective studies.

In addition to those studies which are specified as required, each student must choose enough elective studies to make his whole number of lectures or recitations not less than fourteen, nor more than seventeen, per week. In making up this quota, studies which count for more than the number of exercises actually held are indicated by numbers added in a parenthesis.

Studies marked by a * are given the current year, but will be omitted next year; those marked by a † are omitted the current year, but will, in most cases, be given next year.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	4	I. Mathematics,	4
I. Greek,	4	I. English Language,	1

ELECTIVE.

*IX. Latin,	1	I. German,	3
†X. Latin,	1	I. French,	3

SOPHOMORE YEAR.

REQUIRED.

II. English Language, I. Philosophy,	2½	I. Physics, I. Chemistry,	4½

ELECTIVE.

II. Latin,	2	Italian,	2
III. Latin,	2	*IV. English Language,	3
VII. Latin,	1	II. Mathematics,	3
II. Greek,	2	III. Mathematics,	2
III. Greek,	1	IV. Mathematics,	2
II. German,	3	II. Physics,	2
II. French,	2	III. Geology, }	3
III. French,	1	II. Biology, }	

Each student must include in his electives one of the following combinations:—1. not less than one course of two hours per week in each of the three departments of Latin, Greek, and Mathematics; 2. not less than five hours per week of electives in Mathematics and Physics, both Latin and Greek being dropped; 3. not less than five hours per week in Latin and Greek, and not less than one course of two hours per week in each of those departments.

JUNIOR YEAR.

REQUIRED.

I. Economics,	1 ½	II. Philosophy,	1 ½

ELECTIVE.

†IV. Latin,	2	I. History,	2
*V. Latin,	2	II. History,	2
†VI. Latin,	2	III. History,	2
*VIII. Latin,	1	†IV. History,	2
*IV. Greek,	3	†V. History,	2
†V. Greek,	3	III. Philosophy,	1
VI. Greek,	2	IV. Philosophy,	1
VIII. Greek,	1 (2)	V. Philosophy,	1
*III. German,	2	VI. Philosophy,	1
†IV. German,	2	V. Mathematics,	3
V. German,	1	VI. Mathematics,	2
IV. French,	2 (3)	VII. Mathematics,	3
I. English Literature,	3	Astronomy,	2
†V. English Language,	3	†III. Physics,	3
†VI. English Language,	1	*IV. Physics,	3
Elocution,	2	*V. Physics,	2

VI. Physics, - - 2 or 3
II. Chemistry, - - 1
III. Chemistry, - 2 or 3
IV. Chemistry, - 2 or 3
VI. Chemistry, - - 1
I. Geology, - - - 2
IV. Geology, - - - 3
I. Biology, - - - 2
III. Biology, - - - 2
IV. Biology, - - 2 or 3
†VI. Biology, - - - 1
*VII. Biology, - - 1

SENIOR YEAR.

REQUIRED.

Ethics, - - - - - 1
Evidences, - - - 1

ELECTIVE.

†XII. Latin, - - - 4
XIII. Latin, - - - 2
XIV. Latin, - - - 2
XV. Latin, - - - 1
VII. Greek, - - - 3
VI. German, - - - 1
*V. French, - - - 1 (2)
†VI. French, - - - 1 (2)
*II. English Literature, - 2 (3)
†III. English Literature, - 2 (3)
IV. English Literature, - 1
II. Economics, - - 2
III. Economics, - - 2
IV. Economics, - - 2
V. Economics, - - 2
VII. Philosophy, - - 1½
VIII. Philosophy, - - 1
IX. Philosophy, - 1 (1½)
Theism, - - - - ½ (1)
†IX. Mathematics, - - 2 (3)
VII. Physics, - - 2 or 3
*VIII. Physics, - - 2
†IX. Physics, - - - 2
†X. Physics, - - - 2
V. Chemistry, - - 2
VII. Chemistry, - 2 or 3
VIII. Chemistry, 1, 1½, 2 or 3
IX. Chemistry, - - 2
X. Chemistry, - - 3
II. Geology, - - - 3 (4)
V. Biology, - - 2 or 3

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin, - - - - 4
I. Mathematics, - - 4
I. English Language, - 1
III. Geology, } - - 3
II. Biology, }

ELECTIVE.

*IX. Latin,	1	II. German,	3
†X. Latin,	1	I. French,	3
I. German,	3	II. French,	2

SOPHOMORE YEAR.

REQUIRED.

II. English Language, I. Philosophy,	2½	I. Physics, I. Chemistry,	4½

ELECTIVE.

II. Latin,	2	Italian,	2
III. Latin,	2	*IV. English Language,	3
VII. Latin,	1	II. Mathematics,	3
*III. German,	2	III. Mathematics,	2
†IV. German,	2	IV. Mathematics,	2
V. German,	1	II. Physics,	2
III. French,	1	III. Biology,	2

JUNIOR YEAR.

REQUIRED.

I. Economics,	1½	II. Philosophy,	1½

ELECTIVE.

†IV. Latin,	2	V. Mathematics,	3
*V. Latin,	2	VI. Mathematics,	2
†VI. Latin,	2	VII. Mathematics,	3
*VIII. Latin,	1	Astronomy,	2
VI. German,	1	†III. Physics,	3
IV. French,	2 (3)	*IV. Physics,	3
I. English Literature,	3	*V. Physics,	2
†V. English Language,	3	VI. Physics,	2 or 3
†VI. English Language,	1	II. Chemistry,	1
Elocution,	2	III. Chemistry,	2 or 3
I. History,	2	IV. Chemistry,	2 or 3
II. History,	2	VI. Chemistry,	1
III. History,	2	I. Geology,	2
†IV. History,	2	IV. Geology,	3
†V. History,	2	I. Biology,	2
III. Philosophy,	1	IV. Biology,	2 or 3
IV. Philosophy,	1	†VI. Biology,	1
V. Philosophy,	1	*VII. Biology,	1
VI. Philosophy,	1		

SENIOR YEAR.

REQUIRED.

Ethics, - - - - - 1 Evidences, - - - - 1

ELECTIVE.

†XII. Latin, - - - 4
XIII. Latin, - - - 2
XIV. Latin, - - - 2
XV. Latin, - - - 1
*V. French, - - - 1 (2)
†VI. French, - - - 1 (2)
*II. English Literature, - 2 (3)
†III. English Literature, - 2 (3)
IV. English Literature, - 1
II. Economics, - - 2
III. Economics, - - 2
IV. Economics, - - 2
V. Economics, - - 2
VII. Philosophy, - - 1½
VIII. Philosophy, - - 1

IX. Philosophy, - 1 (1½)
Theism, - - - - ½(1)
†IX. Mathematics, - - 2 (3)
VII. Physics, - - 2 or 3
*VIII. Physics, - - 2
†IX. Physics, - - - 2
†X. Physics, - - - 2
V. Chemistry, - - - 2
VII. Chemistry, - 2 or 3
VIII. Chemistry, 1, 1½, 2 or 3
IX. Chemistry, - - 2
X. Chemistry, - - 3
II. Geology, - - - 3 (4)
V. Biology, - - 2 or 3

SCIENTIFIC COURSE.

The following course is laid down for those who enter college according to the requirements marked A, page 25. The modifications of this course for those who enter according to requirements B or C are indicated below.

FRESHMAN YEAR.

REQUIRED.

I. English Language, - 1
I. Physics, / I. Chemistry, \ - - 4½
III. Geology, / II. Biology, \ - - 3

I. German, - - - 3
II. French, - - - 2
or
II. German, - - 3
I. French, - - - 3

ELECTIVE.

*IX. Latin,	1	III. Mathematics,	2
†X. Latin,	1	IV. Mathematics,	2
II. Mathematics,	3	II. Physics,	2

SOPHOMORE YEAR.

REQUIRED.

II. German,	3	Astronomy,	2
or		I. Biology,	2
II. French,	2	I. Geology,	2
II. English Language, / I. Philosophy,	2½		

ELECTIVE.

*III. German,	2	*V. Physics,	2
†IV. German,	2	VI. Physics,	2 or 3
V. German,	1	II. Chemistry,	1
III. French,	1	III. Chemistry,	2 or 3
Italian,	2	IV. Chemistry,	2 or 3
*IV. English Language,	3	VI. Chemistry,	1
V. Mathematics,	3	IV. Geology,	3
†III. Physics,	3	III. Biology,	2
*IV. Physics,	3		

JUNIOR YEAR.

REQUIRED.

I. Economics,	1½	II. Philosophy,	1½

ELECTIVE.

VI. German,	1	†IV. History,	2
IV. French,	2 (3)	†V. History,	2
I. English Literature,	3	III. Philosophy,	1
†V. English Language,	3	IV. Philosophy,	1
†VI. English Language,	1	V. Philosophy,	1
Elocution,	2	VI. Philosophy,	1
I. History,	2	VI. Mathematics,	2
II. History,	2	VII. Mathematics,	3
III. History,	2	†IX. Mathematics,	2 (3)

VII. Physics,	2 or 3	IX. Chemistry,	2
*VIII. Physics,	2	X. Chemistry,	3
†IX. Physics,	2	II. Geology,	3 (4)
†X. Physics,	2	IV. Biology,	2 or 3
V. Chemistry,	2	†VI. Biology,	1
VII. Chemistry,	2 or 3	*VII. Biology,	1
VIII. Chemistry,	1, 1½, 2 or 3		

SENIOR YEAR.

REQUIRED.

Ethics,	1	Evidences,	1

ELECTIVE.

*V. French,	1 (2)	IV. Economics,	2
†VI. French,	1 (2)	V. Economics,	2
*II. English Literature,	2 (3)	VII. Philosophy,	1½
†III. English Literature,	2 (3)	VIII. Philosophy,	1
IV. English Literature,	1	IX. Philosophy,	1 (1½)
II. Economics,	2	Theism,	½ (1)
III. Economics,	2	V. Biology,	2 or 3

The course for those who enter college according to the set of requirements marked B, page 26, is the same as the above, with the following modifications:—

I. Mathematics, and either II. French or II. German, are required in Freshman year. II., III., and IV. Mathematics are elective in Sophomore year.

Those who enter according to the requirements marked C, page 27, are required to take I. Mathematics in Freshman year, and, for such of the courses I. Physics, I. Chemistry, III. Geology, and II. Biology as they pass on at entrance, they substitute enough elective work to fill out the required quota of exercises per week. Their course in other respects, both as to required and elective studies, is the same as for those who enter according to requirements A, except that their elective studies in Mathematics follow the order just indicated for those who enter according to the requirements B.

In addition to the courses indicated in the foregoing tabular statement, exercises in English composition and public speaking are required of all classes, as specified on pages 39, 40, and 41.

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on pages 64 and 65. In that table the sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the above statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.

DAILY PROGRAMME.

1894-95.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
8.	VII. Greek. I. German. I. French. III. History (2d half-year). III. Economics (1st half-year). IV. Physics. VI. Chemistry (2d half-year).	VI. Greek. II. French. III. History (2d half-year). III. Economics (1st half-year). VII. Mathematics. I. Physics, 2. IX. Chemistry. X. Chemistry.	VII. Greek. I. German. I. French. III. History (2d half-year). III. Economics (1st half-year). IV. Physics. VI. Chemistry (2d half-year).	VI. Greek. II. French. III. History (2d half-year). III. Economics (1st half-year). IV. Physics. IV. Geology.	VII. Greek. I. German. I. French. VII. Mathematics. I. Physics, 2,(1st term). IX. Chemistry. X. Chemistry.	VII. Mathematics. X. Chemistry.
9.	II. Greek, 1. II. English Literature, 1. III. French. III. Philosophy (1st half-year). I. Mathematics, 1. Astronomy. VIII. Physics. II. Geology.	I. Latin, 1. II. English Language (1st half-year). I. Philosophy, 1 (2d half-year). II. Philosophy (1st half-year). I. Economics (2d half-year). I. Mathematics, 1.	I. Latin, 1. II. English Literature, 1. II. English Language (1st half-year). II. Philosophy (1st half-year). I. Economics (2d half-year). II. Geology.	I. Latin, 1. II. Greek, 1. V. German. III. Philosophy (1st half-year). VIII. Philosophy (2d half-year). I. Mathematics, 1. Astronomy. VIII. Physics. II. Geology.	I. Latin, 1. II. English Language (1st half-year). I. Philosophy, 1 (2d half-year). II. Philosophy (1st half-year). I. Economics (2d half-year). I. Mathematics, 1.	
10.	I. Greek, 1. IV. Greek. II. German. II. English Literature, 2. II. Economics (1st half-year) IV. Economics (2d half-year). I. Mathematics, 2. V. Mathematics. V. Chemistry.	III. Latin. I. Greek, 1. Italian. II. Economics (1st half-year). IV. Economics (2d half-year). I. Mathematics, 2. V. Physics. VI. Biology (2d half-year).	I. Greek, 1. IV. Greek. II. German. II. English Literature, 2. II. Economics (1st half-year). IV. Economics (2d half-year). V. Mathematics. V. Chemistry.	III. Latin. I. Greek, 1. Italian. II. Economics (1st half-year). IV. Economics (2d half-year). I. Mathematics, 2. V. Physics. VI. Biology (2d half-year). Declamation (Juniors, 1).* Declamation (Freshmen, 1).*	IV. Greek. IV. English Literature. II. German. I. Mathematics, 2. V. Mathematics. II. Chemistry.	
11.	I. Greek, 2. III. Greek. I. English Literature. V. Economics. VII. Philosophy (1st half-year). VIII. Philosophy (2d half-year). II. Mathematics. IV. Geology.	II. Latin. I. Greek, 2. IV. English Language. II. History. V. Philosophy (1st half-year). VI. Philosophy (2d half-year). IV. Mathematics. VI. Mathematics. III. Biology.	VII. Latin. XIV. Latin. I. Greek, 2. I. English Literature. VII. Philosophy (1st half-year). IX. Philosophy (2d half-year). II. Mathematics. IV. Geology. Declamation (Sophomores, 1, 2).*	II. Latin. I. Greek, 2. IV. English Language. II. History. V. Philosophy (1st half-year). VI. Philosophy (2d half-year). IV. Mathematics. III. Biology. Declamation (Juniors, 2).* Declamation (Freshmen, 2).*	VIII. Greek. I. English Literature. VII. Philosophy (1st half-year). IX. Philosophy (2d half-year). II. Mathematics. XI. Physics.	

DAILY PROGRAMME.—(Continued.)

HOUR.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
2.	Forensics.* I. Mathematics, 3. I. Physics (1st term). I. Chemistry (2d and 3d terms). I. Biology (1st half-year). I. Geology (2d half-year).	I. Latin, 2. Ethics (1st term). Evidences (2d term). I. Mathematics, 3. I. Physics, 1. I. Biology (1st half-year). I. Geology (2d half-year).	I. Latin, 2. XIV. Latin. Ethics (1st term). Evidences (2d term). I. Chemistry (2d half-year). I. Biology (1st half-year). I. Geology (2d half-year). Declamation (Freshmen 3).*	I. Latin, 2. Ethics (1st term). Evidences (2d term). I. Mathematics, 3. I. Physics. I. Biology (1st half-year). I. Geology (2d half-year). Declamation (Juniors, 3, 4).*	I. Latin, 2. VIII. Latin. VI. German. V. French. IV. Philosophy. I. Mathematics, 3. VI. Mathematics. I. Physics, 1 (1st term). I. Chemistry, (2d and 3d terms).	
.	III., IV., VII., VIII. Chemistry.	II., VI., VII. Physics. II. Biology. IV., V. Biology. Declamation(Sophomores,3).* Declamation (Freshmen, 4).*	II., VI., VII. Physics. III., IV., VII., VIII. Chemistry. II. Biology. IV., V. Biology. Declamation (Juniors, 5).* Declamation(Sophomores,4).*	II., VI., VII. Physics. II. Biology. IV., V. Biology. Declamation (Juniors, 6, 7, 8).*	III., IV., VII., VIII. Chemistry.	
.	II. Greek, 2. IV. French. I. B. English Language. I. History (1st half-year). III. Mathematics. III., IV., VII., VIII. Chemistry.	V. Latin. III. German. VI. English Literature. II. Elocution. I. History (1st half-year). I. Philosophy, 2(2d half-year). II., VI., VII. Physics. III. Geology. II. Biology. IV., V. Biology.	II. Greek, 2. IV. French. IV. English Language (lecture). I. History (1st half-year). Theism (2d half-year). II., VI., VII. Physics. III., IV., VII., VIII. Chemistry. III. Geology. II. Biology. IV., V. Biology.	V. Latin. III. German. II. Elocution. I. History (1st half-year). II., VI., VII. Physics. III. Geology. II. Biology. IV., V. Biology.	IX. Latin. I. A. English Language. I. Philosophy, 2 (2d half-year). III. Mathematics. III., IV., VII., VIII. Chemistry.	
.	III., IV., VII., VIII. Chemistry.	VI. English Literature. II., VI., VII. Physics. IV., V. Biology.	V. English Literature. II., VI., VII. Physics. II., IV., VII., VIII. Chemistry. IV., V. Biology.	II., VI., VII. Physics. IV., V. Biology.	XIII. Latin. III., IV., VII., VIII. Chemistry.	

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	$75 00
Room Rent, for half-room, from $18.00 to $36.00; average,	26 00
Steam-heat; average for half-room,	9 00
General Repairs and Incidental Expenses,	27 00
Use of Library and Reading Rooms,	6 00
Total,	$143 00

Students in practical chemistry are charged for the use of apparatus, for chemicals, and for incidentals. The charge averages about nine dollars a term for quantitative, and about six dollars a term for qualitative analysis.

A fee of five dollars a term is charged to each student in practical physics, and also to each student in practical biology.

Ladies residing in the Ladies' Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on the day appointed. In case the bill for any term is not paid, or satisfactorily secured, before the commencement of the following term, the student will be liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or secured.

A student who is absent from college by permission, on account of sickness or for other cause, and retains his place in his class, must pay the full college bills during such absence.

The occupants of each room are held accountable for any damage done to their room.

The rooms in the college buildings are secured to students during term time only, and must all be vacated at the close of the third term. During the summer vacation they will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board must in all cases be subject to the approval of the Faculty. If, however, any of the rooms in college are thus left vacant, the rent of such rooms may be charged to those who room in town.

Gentlemen rooming in the college buildings provide for themselves furniture and lights.

Board may be obtained in private families at prices varying from $3.75 to $5.00 a week. A large majority of the students board in clubs, at prices ranging from $3.00 to $3.75 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. But it may be remarked that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

MATERIAL EQUIPMENT.

LIBRARY AND READING ROOMS.

THE LIBRARY in Rich Hall contains about forty-three thousand volumes. The library is open every week-day of term time, except Saturdays, from 8 A. M. to 1 P. M., and from 2:30 to 4:30 P. M.; on Saturdays, from 8 A. M. to 12 M., and from 1 P. M. to 4 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the librarian.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is used for

miscellaneous laboratory work, one for physiological work, one for coarse dissection, and one for bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, being supplied with microscopes, micrometers, water tanks, warm chambers, dissecting apparatus, myographs, bacteriological apparatus, etc., together with abundance of material for anatomical and histological study. The general laboratory room is provided with a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of most of the experiments usually undertaken in undergraduate courses; while, in the department of electricity, recent large additions of apparatus and machinery afford facilities for extended research, and for instruction in the use of all important electrical instruments. The laboratory work in all departments except electricity is carried on in the rooms on the ground floor of Observatory Hall. The building originally used as a chemical laboratory has been transformed into an electrical laboratory, in which the water, steam, and gas pipes are of brass, thus affording a nearly undisturbed magnetic field, while the dynamos and associated instruments, and also a well equipped workshop, are located at a convenient distance from the electrical laboratory in the boiler house.

DYNAMO ROOM AND WORKSHOP. The principal machines in the dynamo room and workshop are the following:—a 25 horse-power Ball engine; Thompson indicator; Edison 5-kilowatt dynamo; Edison 3-kilowatt motor and several small motors; Westinghouse alternating current dynamo and transformers. The shop, which is supplied with a complete outfit of machines and tools, is in charge of a skilled mechanician who constructs apparatus for lecture and laboratory use.

THE CHEMICAL LABORATORY occupies five rooms in Judd Hall, with store-rooms in the basement. A large working-room on the first floor, with a balance-room adjoining, furnishes accommodations for about thirty students in analytical chemistry, and smaller rooms afford conveniences for the work of instructors and graduate students. A large room in the basement has been furnished and set apart for the laboratory work of the required course in elementary chemistry.

The rooms of the physical laboratory and some of the rooms of the chemical and biological laboratories are lighted by electricity.

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MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. They are arranged in a series of cases in a room adjoining the mathematical lecture room in Observatory Hall.

GYMNASIUM.

The gymnasium is located on the north side of the rear campus and runs parallel to Wyllys Avenue, with the front toward the campus. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a base ball cage, baths, lockers, and toilet rooms.

On the first floor is the main hall of the gymnasium, which affords ample room for every variety of gymnastic exercise, and is fully equipped with the best modern apparatus. Above the main floor there is a running track, suspended from the roof. The director's office and rooms for baths and lockers are also on the first floor. On the second floor is a committee room for the use of the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, lighting, etc., and the present structure is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to educational purposes, and are freely accessible to students.

The nucleus of the departments of zoology and botany was formed by the Shurtleff Collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoological Department has received since 1872 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of

New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in lithology, physical geology, and paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. The collections in paleontology have been very largely increased within the last two years, by expeditions to western Maryland and to the vicinity of Canon City, Col., undertaken by the present curator.

The Ethnographical Department includes a large collection of Indian relics; a valuable collection of pottery from the guano beds of Peru, presented by the late Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; and a remarkably full series of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D. In connection with the ethnographical department of the museum, should be mentioned a collection of coins numbering over 3,000, exclusive of duplicates. Included in this number is a collection of 1,750 Chinese coins, some of which are ancient and very rare, presented by Rev Marcus L. Taft, D. D. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the ex-

ception of a small selection placed on exhibition in the museum) are kept in a case in the library, where they can be seen by students and others by special application. Small collections illustrative of classical archæology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	150
Fishes,	2,100
Insects—pinned and alcoholic,	3,800
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Cœlentera,	1,700
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,700
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	11,800
Fossils—Paleozoic,	4,400
Mesozoic,	2,200
Cenozoic,	2,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	2,700
Coins,	5,000

The Museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A limited number of scholarships exempting the holders from the charge for tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is to be given annually to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

This scholarship was awarded for the year 1893-94 to William Monroe Newton, and for the year 1894-95 to Arthur Henry Scudder.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of $5,000 will be awarded to that member of the Senior class who shall pass the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

This scholarship was awarded, on the basis of work done in the year 1893-94, to Roscoe Allan Grant, B. A., this year a student at Berlin, Germany.

COLLEGE HONORS.

PRIZES.

The following prizes will be awarded during the present year:—

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior class whose oration at Commencement shall be deemed best in composition and delivery. Each oration shall contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before Tuesday, June 18.

The Olin Rhetorical Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior class who shall excel in English composition. The subject for the essay of 1895 is, The Novel as a Moral Force in the last half of the Nineteenth Century. The subject for the essay of 1896 is, The Moral Limitations of Art. The essays must be left with the Professor of English Literature on or before the first Monday of the third term.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, will be awarded to that member of the Junior class who shall excel in history. It will be given in 1895 upon a special examination in the course in history marked II. in the present catalogue, page 42.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior class who shall excel in moral philosophy.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Senior class who shall write the best essay on some specified subject in the domain of economics. The subject for the essay of 1895 is, The Just Monetary Standard. The essays must be left with the head of the department on or before the third Monday in May.

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will

be awarded to that member of the Senior, Junior, or Sophomore class who shall excel in natural science. The examination for this prize this year will be in physiology.

The G. Brown Goode Prize, the gift of G. Brown Goode, LL. D., will be awarded for the best original investigation in the department of natural history.

Two prizes will be awarded, as a first and second prize, respectively, to the two members of the Junior class who shall present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations will be considered. The orations must be left with the Professor of the English Language on or before Saturday, April 20.

The Camp Prize, the gift of Samuel T. Camp, will be awarded to that member of the Junior class who shall excel in English literature.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded to that member of the Junior class who shall excel in philosophy.

A prize will be awarded to that member of the Junior class who shall excel in debate.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—In Memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be awarded to that member of the Junior class who shall excel in psychology.

The Johnston Prize, the gift of Rev. David G. Downey, M. A., in memory of Professor John Johnston, will be awarded to that member of the Junior class who shall excel in electricity. It will be given in 1895 upon a special examination in the course in physics marked V. in the present catalogue, page 48.

The Parker Prize, the gift of Rev. John Parker, for excellence in elocution, will be awarded to the best speaker in the Junior and Sophomore classes.

A second prize will be awarded, in the same classes, for excellence in elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Spinney Prize, the gift of Mrs. Joseph S. Spinney, will be awarded to that member of the Sophomore class who shall excel in Greek.

The Phi Beta Kappa Prize will be awarded to that member of the Sophomore class who shall excel in Latin.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded to that member of the Sophomore class who shall excel in mathematics.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman class who shall excel in Latin.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman class who shall excel in declamation.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to the Classical Course.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student, in any of the college classes, who shall write the best English poem. The poem must be left with the Professor of English Literature before the senior examination.

The designation of the classes to which the prizes are offered is made with reference to the arrangement of studies in the Classical Course. Students in the other courses, and special students, may compete for prizes in any department with the class with which they have been associated in that department.

The several Committees of Award will withhold any of these prizes, if, in their judgment, none of the exercises presented in competition for them possess the requisite merit.

The prizes were awarded last year as follows:—

The Rich Prize, to Frederic Lawrence Knowles;
Committee of Award:—
Rev. Henry Ward Bennett, D. D., Mexico, N. Y.,
Rev. Timothy Prescott Frost, M. A., Baltimore, Md.,
Rev. Delmer Rial Lowell, D. D., Fort Riley, Kan.

The Olin Prize, to Frederic Lawrence Knowles;
Committee of Award:—
William Lyon Phelps, Ph. D., Yale University.

The Harrington Prize, to Harry Reed Van Deusen.

The Wise Prize, to Charles Hubbard Judd.

The Joseph D. Weeks Prize, to Henry Ingraham Harriman;
Committee of Award:—
Professor Henry Brayton Gardner, Ph. D., Brown University.

The Peirce Prize to James Lincoln Bahret and James Pendleton Erskine.

The G. Brown Goode Prize, to Charles Hubbard Judd;
Committee of Award:—
Frank Kirkwood Hallock, M. D., Cromwell, in conference with the Professors of Geology and Biology.

The First Junior Exhibition Prize, to Charles Otis Judkins;
Committee of Award:—
Hon. Eldon Benjamin Birdsey, LL. B., Middletown.
Rev. Frank Flood German, B. A., Middletown.
Herman Charles Whittlesey, B. A., Middletown.

The Second Junior Exhibition Prize, to Andrew Buchanan White Gillies;
Committee of Award:—
Same as for the First Junior Exhibition prize.

The Camp Prize, to Edward Lee Thorndike.

The Weeks Prize, to Merle Bowman Waltz.

The Prize for Debate, to Andrew Buchanan White Gillies;
Committee of Award:—
Professors Armstrong, Stephenson, and Fisher.

The Walkley Prize, to Edward Lee Thorndike.

The Johnston Prize, to Merle Bowman Waltz.

The Parker Prize, to James Henry Fuller;
Committee of Award:—
George Marcellus Landers, Jr., Ph. B., New Britain,
Rev. George McKendree Steele, D. D., LL. D., Auburndale, Mass.,
Rev. Emerson K. Young, D. D., New Britain.

The Scranton Prize, to Arthur Beebe Darling;
Committee of Award:—
Same as for the Parker Prize.

The Spinney Prize, to Charles Samuel Leavenworth.

The Phi Beta Kappa Prize, to Cornelius Roach Berrien.

The Rice Prize, to Albert Francis Blakeslee.

The Sherman Prize, to Walter Whortle Wilsey.

The Hibbard Prize, to Lizzie Emma Dufford;
Committee of Award:—
Same as for the Parker Prize.

The Taylor Prize, to Frederic Lawrence Knowles.

The Ayres Prize for the present year has been awarded to Alling Prudden Beardsley and Eugene Wyllys Burr.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to the grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected according to the grade in composition and declamation subsequent to the Sophomore year. The number of speakers at each of these public exercises is limited to ten. The speakers last year were:—

AT THE JUNIOR EXHIBITION.—LeRoy Mason Beeman, James Pendleton Erskine, Andrew Buchanan White Gillies, Henry Ingraham Harriman, Charles Otis Judkins, Warren French Sheldon, Verona J. Smith, Edward Lee Thorndike.

AT COMMENCEMENT.—Ernest Bawden, Charles Wesley Delano, Abraham Howry Espenshade, William Wright Fisher, Fredric Worthen Frost, Florence Alberta Graves, Frederic Lawrence Knowles, William Leonard Snow, Harry Reed Van Deusen.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or of the Junior year, and no student shall receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given as early as the first Monday in May of the year in which the candidate proposes to present himself for the special examination. The case of each candidate shall be decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must pass, and maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and I., either II. or III., and VII. Latin.

2. He must also pass with distinction a special examination designed to test *(a)* his ability to translate Greek and Latin into English at sight, and *(b)* his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history. This special examination shall be held near the end of the academic year.

Mathematics.—1. The candidate must pass, and maintain an average standing of second grade, in the required course in mathematics, and in such elective courses, amounting to not less than five hours a week, as may be approved by the head of the department. Courses II. and IV. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

If the candidate for preliminary honors shall fail to attain an average standing of second grade, in the studies prescribed in the preceding regulations, he may, nevertheless, receive the honor, provided his work during the Sophomore and Junior years, in the department in which he proposes to take a preliminary honor, shall show, in the opinion of the instructors concerned, a sufficient degree of improvement.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Special honors are also awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which these special honors are awarded are as follows:—

(1) The candidate must apply to the officer of the department in which he proposes to take honors, not later than the first Monday in May in the Junior year.

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must maintain an average standing of second grade after the beginning of his Sophomore year, provided, however, that, if he maintain a standing of first grade in such of these studies as he pursues in his Junior and Senior years, the standing of the Sophomore year may be ignored.

(3) No student shall receive special honors who shall fail to pass in any study of the last two years of the course.

(4) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading or investigation as shall be prescribed by the officer in charge of the department. The evidence of his proficiency in this collateral

course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

(5) In addition to other requirements, every candidate for special honors shall be required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination shall be oral, and shall be conducted in the presence of a committee of the Faculty.

(6) No examination for special honors shall be given, and no thesis or other work in preparation for special honors shall be received, after the second Saturday preceding Commencement.

The following schedule gives the studies required of candidates for special honors in the several departments;—

Latin.—1. Courses I., VII.-X., and XII. in Latin; and so many of the remaining courses in Latin as will amount in the aggregate to not less than eight hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.-VII. in Greek.

2. Course I. and either Course II. or Course III. in Latin.

German.—1. All the courses in German.

2. Courses I. and II. in French.

3. The course in Anglo-Saxon.

Romance Languages.—1. Courses I.-IV. in French, and the course in Italian.

2. Courses I. and II. in German.

English.—1. The required courses in English, including Composition.

2. One of the following groups of elective courses:—

(a.) Anglo-Saxon, Early English, and Courses I., IV., and either II. or III. in English Literature.

(b.) Anglo-Saxon, Early English, Course I. in English Literature, and Courses I. and II. in German.

(c.) Courses I., IV., and either II. or III. in English Literature, Anglo-Saxon, and Course II. in History.

History.—1. All the courses in History.

2. The required course, and one elective course, in Economics and Social Science.

Economics and Social Science.—1. All the courses in Economics and Social Science.

2. Courses I., II., and IV. in History.

Philosophy.—1. Courses I., II., V., VI., VII., and IX. Philosophy.

2. Two of the following courses:—III., IV., VIII. Philosophy.

3. The course in Ethics.

4. The course in Theism, or Course I. in Biology.

Mathematics.—1. The required course in Mathematics.

2. Elective courses in Mathematics and Astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in Physics.

[Prospective candidates for special honors in Mathematics at graduation are advised to take Course IV. in Mathematics in the Sophomore year.]

Physics.—1. Course I. in Physics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises a week).

3. Not less than three of the following courses:—III., IV., V., VIII., IX., X. Physics, and VII. Mathematics.

4. Course I. in Chemistry.

5. Either Course III. in Chemistry or Course IV. in Mathematics.

Chemistry.—1. Courses I.-V. and IX. in Chemistry (three exercises a week being required in Course III.).

2. Course I. in Physics, and one year of Practical Physics; or Course VI. in Chemistry, and Courses I. and IV. in Biology.

Geology.—1. Courses I.-IV. in Geology.

2. The course in Astronomy.

3. Courses II. and III. in Biology.

4. Not less than two of the following courses:—IV. and V. Biology, III. and IV. Chemistry, IV. Physics.

Biology.—1. Courses I.-V. in Biology.

2. Courses I. and III. in Geology.

3. Course III. in Chemistry.

[Candidates for special honors in Biology at graduation are especially recommended to take at least one summer course in the Marine Laboratory at Cold Spring Harbor.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection must be subject to the approval of the head of the department in which he proposes to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

The names of those students who take preliminary honors are announced on the Monday preceding Commencement.

In 1894, preliminary honors were awarded as follows:—

CLASSICS.—Clifford Pease Clark, Arthur Mathews Gates, Hiram Emery Miller.

MATHEMATICS.—Norman Everett Gilbert, Maud Eloise Wells.

The honors at graduation, both general and special, are stated in the diploma; and the names of students who take such honors are printed on the Commencement scheme.

At the last Commencement, honors were awarded as follows:—

GENERAL SCHOLARSHIP.—*First Grade.* Abraham Howry Espenshade, Florence Alberta Graves, Charles Hubbard Judd, Harry Reed Van Deusen.

Second Grade. William Wright Fisher, Fredric Worthen Frost, Alice Cora Fuller, Arthur Mathews Gates, Roscoe Allan Grant, Frederic Lawrence Knowles, Susie Jane Mantle, Irving Avard Meeker, Lizzie Chapin Rice, Frederick Henry Sawyer, William Leonard Snow, Henry Archelaus Tirrell.

SPECIAL DEPARTMENTS.—*Latin.*—Special Studies in Catullus in connection with the Latin Seminary. Thesis: "On the History of the Text of Catullus."

To Arthur Mathews Gates.

Greek.—Studies in Homer. Thesis: "The Homeric Poems and the Development of Greek Art in Vase Painting."

To William Wright Fisher.

Readings in the Greek Drama. Thesis: "Aristophanes as a Critic of Greek Drama."

To Roscoe Allan Grant.

Romance Languages.—The Life and Works of Victor Hugo. Thesis: "Victor Hugo as Novelist and Dramatist."

To Edwin Bryant Nichols.

Modern Languages.—

To Charles Hutchinson Dye.

History.—Studies in the Historical Interpretation of the Constitution of the United States.

To William Flowers Groves, Theodore Horace Jameson, Harry Reed Van Deusen.

Philosophy.—Studies in Advanced Psychology. Thesis: "The Imagery of American Students."

To Charles Hubbard Judd.

Physics.—Studies in Electrical Science. Thesis: "On the Alternating-Current Transformer."

To Rupert Henry Hopkins.

Chemistry.—Studies in Organic Chemistry. Thesis: "Alchemy."

To Willis Thomas Lee.

DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE,—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science will be conferred in accordance with the following regulations:—

1. The degree of Master of Arts may be conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. Said course of study shall be under the full direction of a Committee of the Faculty on Graduate Instruction, to be composed of three permanent members with the addition of the instructor in charge of each department in which the candidate shall pursue work. Evidence of the candidate's proficiency in the approved studies shall be given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the Committee may prescribe. All such tests of proficiency shall be under the direction of the Committee, and they shall report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who shall pass such additional examinations as the Committee may prescribe, the degree of Master of Arts may be conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts may also be conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations shall hold in the case of non-resident as in the case of resident students. The degree may also be conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate shall have spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science may be conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions that govern in the case of the degree of Master of Arts.

5. A fee of ten dollars shall be required from each graduate student upon promotion to the Master's degree.

In accordance with the above regulations, the Faculty have appointed Professors Atwater, Merrill, and Armstrong permanent members of the Committee on Graduate Instruction, and to them, or to the head of any one of the departments of instruction, may be addressed communications from prospective graduate students.

At the last Commencement, degrees were conferred as follows:—

THE DEGREE OF B. A. was conferred on:—James Gordon Baldwin, Ernest Bawden, Benjamin Robert Briggs, Ernest Charles Carpenter, Charles Wesley Delano, John Payson Drake, Abraham Howry Espenshade, William Wright Fisher, Robert Moses French, Fredric Worthen Frost, Arthur Mathews Gates, Lewis Edward Gordon, Roscoe Allan Grant, William Flowers Groves, Arthur Leolin Howe, Charles Chase Hurlbut, Theodore Horace Jameson, Charles Hubbard Judd, Frederic Lawrence Knowles, Charles Pitman Lake, Lewis Marshall Lounsbury, Ralph Fernald Lowe, George Carlton

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THE DEGREE OF PH. B. was conferred on:—Julian Aznar, Charles Henry Colt, William Butler Davis, Charles Hutchinson Dye, Alice Cora Fuller, Florence Alberta Graves, George Oglevie Jarvis, Willis Thomas Lee, John Daniel Stark, William Hill Taylor.

THE DEGREE OF B. S. was conferred on:—William Merrill Esten, Robert Elmer Hendershot, Rupert Henry Hopkins, Lizzie Chapin Rice.

THE DEGREE OF M. A. on Examination was conferred on:—

Lena Maud Adams, B. A., 1892. Subject: Advanced Studies in Mathematical Astronomy and Physics. Thesis: "The Orbit of Comet 1889, V."

Harry Keiser Munroe, B. A., 1888. Subject: Studies in English Literature and Criticism. Thesis: "On the beginning of English Romanticism in the Eighteenth Century."

Harry Monmouth Smith, B. A., 1891. Subject: Advanced Studies in Organic and Physiological Chemistry. Thesis: "On the Chemistry of a Dietary."

THE DEGREE OF M. S. on Examination was conferred on:—

Caroline Tracy Robbins, B. S., 1893. Subjects: Physics and Chemistry. Thesis: "On the Action of Sodium sulphide upon Acetylene dibromide."

Walter Starr Watson, Ph. B., 1893. Major Subject: Biology. Minor Subjects: Geology and Chemistry. Thesis: "On the Influence of Bacteria upon Milk and upon Butter."

THE DEGREE OF M. A., *honoris causa*, was conferred on:—Elbert Wesley Griffith, M. S., of Norwich, N. Y.; Arthur Shimmin Kneil, of Westfield, Mass.

THE DEGREE OF D. D. was conferred on:—Rev. Frank Mason North, M. A., (class of 1872), of New York, N. Y.; Professor Robert William Rogers, Ph. D., of Drew Theological Seminary; Rev. Elias Benjamin Sanford, M. A., (class of 1865), of Westbrook, Conn.

THE DEGREE OF LL. D. was conferred on:—Stephen Henry Olin, M. A., (class of 1866), of New York, N. Y.; Hon. Carroll Davidson Wright, M. A., United States Commissioner of Labor.

ALUMNI RECORD.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record, when sent by mail, is two dollars and twenty-five cents.

A Supplement to the Alumni Record, containing an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, and their addresses, was published in August, 1893.

Information in regard to changes of residence or address of Alumni or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Mr. F. W. Nicolson.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Bulletin. All persons who can supply information appropriate to future lists, are urgently requested to communicate the same to Mr. F. W. Nicolson.

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CALENDAR.

1894.

Sept. 27, Thursday—First Term began.
Nov. 29—Dec. 1,—Thanksgiving Recess.
Dec. 21, Friday—First Term will close.

1895. CHRISTMAS RECESS.

Jan. 3, Thursday—Second Term will begin.
Jan. 31, Thursday—Day of Prayer for Colleges.
Feb. 11—Feb. 16,—Mid-year Examinations.
April 10, Wednesday—Second Term will close.

EASTER RECESS.

April 16, Tuesday—Third Term will begin.
April 20, Saturday—Last day for presenting Junior Exhibition Essays.
April 22, Monday—Last day for presenting Olin Prize Essays.
May 2, Thursday—Junior Exhibition.
May 6, Monday—Last day for presenting applications for Preliminary and Special Honors.
May 20, Monday—Last day for presenting Joseph D. Weeks Prize Essays.
June 3, Monday—Senior Examination will commence.
June 6, Thursday—Prize Debate and Declamation.
June 11, Tuesday—Annual Examination will commence.
June 18, Tuesday—Last day for presenting Rich Prize Essays.
June 21, Friday—Prize Declamation.
June 23, Sunday Morning—Baccalaureate Sermon.
June 23, Sunday Evening—University Sermon.
June 24, Monday—Class Day.
June 25, Tuesday—Meeting of the Board of Trustees.
June 25, Tuesday—Business Meeting of the Alumni Association.
June 25, Tuesday—Reunion of Classes of 1845, '70, '80, '85, '88, '92.
June 25, Tuesday—Anniversaries of the Literary Societies.
June 26, The last Wednesday of June—COMMENCEMENT.
June 27, Thursday—Examination of candidates for admission will begin.

VACATION OF THIRTEEN WEEKS.

Sept. 24, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 25, Wednesday—Examination of candidates for admission will begin.
Sept. 26, Thursday—First Term will begin.

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ANNUAL CATALOGUE

—OF—

WESLEYAN UNIVERSITY

1895-96

MIDDLETOWN, CONN.:
PELTON & KING, PRINTERS AND BOOKBINDERS.
1895.

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—OF—

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1895-96

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NOTE.—Trustees whose names are marked with a § were elected by the Alumni; those whose names are marked with a † were elected by the Patronizing Conferences; all others were elected by the Board.

The term of office is five years, the official year beginning on the Tuesday preceding the annual Commencement.

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† Absent for the year.

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(Chem. Lab.) 269 Court St.

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(13 J. H.) 263 William St.

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215 High St.

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ASSISTANT LIBRARIAN.
44 N. C.

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MECHANICIAN.
308 William St.

STUDENTS.

GRADUATE STUDENTS.

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Charles Spaulding Aldrich, B. A., (Brown), PHILOSOPHY, ENGLISH LITERATURE, AND HISTORY.	*Middletown.*	32 N. C.
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William Merrill Esten, B. S., BIOLOGY.	*Middletown.*	9 O. H.
Norman Everett Gilbert, B. A., PHYSICS AND MATHEMATICS.	*Middletown.*	13 O. H.
Frank Nelson Guild, B. S., (Univ. of Vermont), CHEMISTRY AND PHYSICS.	*Middletown.*	*215 High St.*
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Arthur Whitmore Smith, M. S., PHYSICS.	*Middletown.*	*215 High St.*
Ernest Ketcham Smith, B. A., ENGLISH LITERATURE AND ENGLISH LANGUAGE.	*Middletown.*	44 N. C.
Wesley Wood Smith, B. A., B. D., GREEK.	*Portland.*	*Portland.*
William Seaver Woods, B. A., ECONOMICS.	*Middletown.*	*238 High St.*

SENIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
John Abraham Anderson,	*Chicago, Ill.*	*242 High St.*
† William Wright Anderson,	*Wellsville, N. Y.*	Δ. K. E. *House.*
§ Harry Arthur Batchelder,	*Plainfield, Vt.*	B. Θ. Π. *House.*
Cornelius Roach Berrien,	*Montclair, N. J.*	17 O. H.
Albert Francis Blakeslee,	*E. Greenwich, R. I.*	12 O. H.
§ Augusta Minc Britton,	*Hartford.*	*274 High St.*
Francis Cobb Brown,	*Huntington, N. Y.*	A. Δ. Φ. *House.*
William Harry Burgwin,	*Fabius, N. Y.*	20 N. C.
§ Alfred Burnette Case,	*Jamestown, N. Y.*	X. Ψ. *Lodge.*
William Barrett Cass,	*Saratoga Springs, N. Y.*	*51 Wyllys Ave.*
Jason Franklin Chase,	*Chelsea, Mass.*	25 N. C.
§ Isabella Jamieson Church,	*Middletown.*	*South Farms.*
Henry Loren Clements,	*Moscow, Pa.*	*178 Church St.*
§ James Brooks Comins,	*Stafford Springs.*	X. Ψ. *Lodge.*
§ Melrose Delmont Davies,	*Winthrop, Me.*	Δ. K. E. *House.*
§ Jeanie Louise DeForest,	*Norwich.*	*274 High St.*
§ May Stockbridge Finney,	*Hartford.*	*274 High St.*
§ Hart Silas Fuller,	*Ellenville, N. Y.*	Φ. P. *House.*
§ James Henry Fuller,	*Lenox, Pa.*	Δ. K. E. *House.*
† Christine Kellogg Glover,	*Middletown.*	*302 College St.*
§ Edith Rochelle Graves,	*Clear Lake, Ia.*	*197 High St.*
† Albert Jabesh Harris,	*Buffalo, N. Y.*	29 N. C.
Olin Wesley Hill,	*New Haven.*	B. Θ. Π. *House.*
§ Lillian Grey Inglis,	*Middletown.*	*176 Main St.*
† Anna Josephine Kellogg,	*Meriden.*	*274 High St.*
Charles Samuel Leavenworth,	*New Haven.*	12 O. H.
Frank Thaddeus Love,	*Pittsfield, Mass.*	X. Ψ. *Lodge.*
Mary Annie McKay,	*Camden, Me.*	*197 High St.*
† Irving Edward Manchester,	*West Winsted.*	38 N. C.
Thomas Bowie Miller,	*New Haven.*	Δ. K. E. *House.*
Robert Augustus Montgomery,	*Old Bridge, N. J.*	18 N. C.
George Miles Moody,	*Troy, N. Y.*	*58 Wyllys Ave.*
§ William Henry Seward Morey,	*Baldwinsville, N. Y.*	B. Θ. Π. *House.*
§ George Rowland Munroe,	*New York, N. Y.*	———

NAMES	RESIDENCES.	ROOMS.
Ellis Franklin Nightingale,	*Middletown.*	*Gymnasium.*
Louis Arthur Norris,	*Montpelier, Vt.*	Φ. Γ. *House.*
† George Wingate Norton,	*Middletown.*	28 N. C.
Albert Eugene Osborne,	*Lathrop, Pa.*	*178 Church St.*
Fannie Bishop Petty,	*Centre Moriches, N. Y.*	*274 High St.*
Joseph Adams Puffer,	*Harrington, Me.*	*Gymnasium.*
James Pullman,	*Bridgeport.*	Α. Δ. Φ. *House.*
Ernest Scott Quimby,	*Penacook, N. H.*	Δ. Κ. Ε. *House.*
Richard Reed Reynolds,	*Southington.*	Β. Θ. Π. *House.*
§ Elizabeth Halsey Rogers,	*Sagaponack, N. Y.*	*274 High St.*
† William Eugene Schimpff,	*Scranton, Pa.*	Φ. Γ. *House.*
§ Lucy Osborne Searle,	*Baltimore, Md.*	*274 High St.*
John Foster Searles,	*New York, N. Y.*	*242 High St.*
Edmund David Searls,	*Chelsea, Me.*	Ψ. Υ. *House.*
Vernon Benjamin Swett,	*South Paris, Me.*	*238 High St.*
Joseph Willard Thomas,	*North Gorham, Me.*	Χ. Ψ. *Lodge.*
George Dallas Thompson,	*Salem, N. J.*	Β. Θ. Π. *House.*
† George Leavitt Tirrell,	*Providence, R. I.*	Α. Δ. Φ. *House.*
William Braman Tower,	*Worcester, Mass.*	*238 High St.*
Henry Deiderich Trinkaus,	*Bridgeport.*	Δ. Κ. Ε. *House.*
John Henry Ward,	*Ravena, N. Y.*	Β. Θ. Π. *House.*
Wilbur Abbott Welch,	*New York, N. Y.*	Ψ. Υ. *House.*
Renwick White,	*Highlands, N. C.*	Φ. Γ. *House.*
§ Margaret Neff Williams,	*New Britain.*	*197 High St.*

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Mary Abbie Adams,	*Gales Ferry.*	*197 High St.*
Edith Jefferson Andrus,	*Yonkers, N. Y.*	*197 High St.*
Alexander Montague Atherton,	*Honolulu, H. I.*	Ψ. Υ. *House.*
Alfred George Austin,	*East Burke, Vt.*	Β. Θ. Π. *House.*
Eva Viola Austin,	*Yonkers, N. Y.*	*197 High St.*
Charles Thomas Beers,	*Catskill, N. Y.*	Φ. Γ. *House.*
§ Manning Blackstone Bennett,	*Mexico, N. Y.*	27 N. C.

NAMES.	RESIDENCES.	ROOMS.
Reuben Nelson Bennett,	*Wilkes-Barre, Pa.*	Ψ. Υ. *House.*
§ Carrie Tappan Brown,	*New Hartford.*	*197 High St.*
Charles Harvey Brown,	*Round Lake, N. Y.*	Φ. P. *House.*
Burton Hoag Brownell,	*Tomhannock, N. Y.*	Δ. K. E. *House.*
§ Mary Grace Bunnell,	*Bridgeport.*	*274 High St.*
§ Frank Wright Burr,	*Middletown.*	*Burr Ave.*
§ Davison Augustus Chandler,	*Plainfield, N. J.*	X. Ψ. *Lodge.*
§ William Huse Chapman,	*Middletown.*	37 N. C.
§ Jane Coughlin,	*Bridgeport.*	*274 High St.*
§ Newland Evan Davis,	*Middletown.*	30 N. C.
§ Howard George Dibble,	*Bath-on-Hudson, N. Y.*	30 N. C.
§ Lizzie Emma Dufford,	*Paterson, N. J.*	*274 High St.*
George Evans,	*Wanamie, Pa.*	Δ. K. E. *House.*
William Gill Giffin,	*Mt. Vernon, N. Y.*	Ψ. Υ. *House.*
John Gowdy,	*Lawrence, Mass.*	38 N. C.
Bernard Ferriss Greenslet,	*Glens Falls, N. Y.*	Ψ. Υ. *House.*
§ William Gano Guernsey,	*Bangall, N. Y.*	17 O. H.
† Charles Thomas Guildford,	*West Winsted.*	13 N. C.
Emmie Bailey Harris,	*Fitchburg, Mass.*	*197 High St.*
† Olivia Howell Hatfield,	*Pittston, Pa.*	*301 College St.*
† Whitney Myron Hubbard,	*Greenport, N. Y.*	*South Farms.*
§ Frank Goodwin Jester,	*Milford, Del.*	X. Ψ. *Lodge.*
Irville Charles LeCompte,	*Binghamton, N. Y.*	Δ. K. E. *House.*
Delmar J. Lindley,	*Factoryville, Pa.*	*296 William St.*
William Harry Schock McMorris,	*Harrisburg, Pa.*	29 N. C.
§ Clarence Harry Martin,	*Bradford, Vt.*	Φ. P. *House.*
§ Cornelia Augusta Meeks,	*Yonkers, N. Y.*	*274 High St.*
Thomas Robinson Moore,	*Felton, Del.*	X. Ψ. *Lodge.*
Francis Reid North,	*Montclair, N. J.*	19 O. H.
§ Stephen Allen Norton,	*Middletown.*	28 N. C.
Francis Davenport Pringle,	*Plymouth, Pa.*	X. Ψ. *Lodge.*
William Barton Pruner,	*Wilkes-Barre, Pa.*	20 N. C.
Charles Landon Rockwell,	*New York, N. Y.*	Α. Δ. Φ. *House.*
Frederick William Roe,	*Wolcott, N. Y.*	Α. Δ. Φ. *House.*
† Clarence Arthur Sanford,	*Meriden.*	27 N. C.
§ Edgar Benton Singer,	*Albert, Pa.*	Δ. K. E. *House.*
Alvenza Ingham Smith,	*Winthrop, Me.*	Ψ. Υ. *House.*
§ Minnie Rose Snow,	*East Hampton.*	*286 William St.*

NAMES.	RESIDENCES.	ROOMS.
John Lewes Sparklin,	*Fowling Creek, Md.*	X. Ψ. *Lodge.*
§ Elizabeth Cookman Stevens,	*White Plains, N. Y.*	*274 High St.*
Cornelia Haddon Stone,	*Middletown.*	*96 William St.*
William Eli Davis Stone,	*Worcester, Mass.*	10 O. H.
Evan Lenn Tamblyn,	*Hackettstown, N. J.*	A. Δ. Φ. *House.*
Mary Grace Thompson,	*Brooklyn, N. Y.*	*197 High St.*
William Alexander Thompson,	*Brooklyn, N. Y.*	A. Δ. Φ. *House.*
Mary Lawton Westgate,	*Middletown.*	*178 Church St.*
Bessie Williams,	*New Britain.*	*197 High St.*
Leon Kurtz Willman,	*Pottstown, Pa.*	*51 Wyllys Ave.*
Walter Wortley Wilsey,	*Philadelphia, Pa.*	*72 College St.*
§ Robert Paddock Wilson,	*Middletown.*	48 N. C.
† Paul Livingston Woolston,	*Ocean Grove, N. J.*	A. Δ. Φ. *House.*
§ Carrie May Yale,	*Meriden.*	*274 High St.*
Myron Burton Yaw,	*Enosburg Falls, Vt.*	B. Θ. Π. *House.*

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
† James Leon Alexander,	*Elizabeth, N. J.*	Δ. K. E. *House.*
Benjamin Francis Andrews,	*South Norwalk.*	Δ. K. E. *House.*
George Edward Andrews,	*Newfields, N. H.*	45 N. C.
Frank Cooke Atherton,	*Honolulu, H. I.*	Ψ. Υ. *House.*
Bernard Giffin Barton,	*Derby.*	*51 Wyllys Ave.*
Alling Prudden Beardsley,	*Derby.*	Ψ. Υ. *House.*
Albert Edson Bobo,	*Brooklyn, N. Y.*	B. Θ. Π. *House.*
Fred Inness Brown,	*Providence, R. I.*	4 N. C.
Eugene Wyllys Burr,	*Montclair, N. J.*	*238 High St.*
§ Mortimer Hart Camp,	*New Britain.*	43 N. C.
Alfred Tredwell Davison,	*Brooklyn, N. Y.*	*250 High St.*
§ Frank Everett Eastman,	*Stafford Springs.*	X. Ψ. *Lodge.*
John Howard Fairchild,	*Middletown.*	*24 Grand St.*
§ Edmund Wilson Frain,	*Williamsport, Pa.*	*250 High St.*
Margaret Wilber Gaines,	*Hawley, Pa.*	*178 Church St.*
§ Florence Mabel Gamache,	*Shrewsbury, Mass.*	*274 High St.*

NAMES.	RESIDENCES.	ROOMS.
George Gilmour,	*Philadelphia, Pa.*	46 N. C.
† Carle Augustus Graves,	*New Britain.*	B. Θ. Π. *House.*
§ Arthur Olin Griggs,	*Westford.*	Φ. P. *House.*
Hattie Bernice Hall,	*Springfield, Mass.*	*274 High St.*
† Jesse Ralph Harris,	*Buffalo, N. Y.*	Φ. P. *House.*
Harold Hastings,	*Ubet, Mont.*	19 N. C.
† Phillip Bovier Hawk,	*East Branch, N. Y.*	2 N. C.
William Herrick Hawkins,	*Albany, N. Y.*	Δ. K. E. *House.*
Herbert Hazzard,	*Kingston, N. Y.*	13 N. C.
§ John Robertson Henry,	*St. John, N. B.*	46 N. C.
Warren Lanning Hoagland, Jr.,	*Passaic, N. J.*	*238 High St.*
George Herbert Hough,	*Brattleboro, Vt.*	B. Θ. Π. *House.*
§ DeWitt Hubbell,	*Buffalo, N. Y.*	*250 High St.*
§ Eben Jackson,	*Middletown.*	*376 Washington St.*
† Frederick Atkins Johnston,	*New Brighton, N. Y.*	53 N. C.
Robert Tolles Jones,	*Brooklyn, N. Y.*	36 N. C.
Chester Chaffee Kent,	*Meriden.*	Δ. K. E. *House.*
§ George Albertus Kenyon,	*Syracuse, N. Y.*	Δ. K. E. *House.*
† Howard Hapgood Kipp,	*Sing Sing, N. Y.*	Ψ. Υ. *House.*
Ellis Richard Lewis,	*Chenango Forks, N. Y.*	Δ. K. E. *House.*
Herbert Abram Lewis,	*Utica, N. Y.*	*250 High St.*
George Bush MacComber,	*Watertown, N. Y.*	39 N. C.
Roberta Mason,	*Westfield, N. J.*	*274 High St.*
Harold Denman Meeker,	*Cincinnati, O.*	Ψ. Υ. *House.*
§ Edward Laird Mills,	*Bozeman, Mont.*	Φ. P. *House.*
§ Robert Denniston Milner,	*Winnipauk.*	19 N. C.
Samuel Alfred Moyle,	*Derby.*	36 N. C.
§ Eleanor Newell,	*Hartford.*	*174 Church St.*
Adolphus Stewart North,	*New York, N. Y.*	19 O. H.
§ Mary Northrop,	*Middletown.*	*174 Church St.*
George Leroy Noyes,	*Lisbon, N. H.*	39 N. C.
Hannah Pembroke O'Flaherty,	*Hartford.*	*274 High St.*
Patrick Francis O'Neill,	*Wilkes-Barre, Pa.*	*296 William St.*
§ George Wilbur Osmun,	*Danbury.*	Ψ. Υ. *House.*
William Arthur Pierce,	*Nashville, Tenn.*	12 N. C.
Robert Edward Platt,	*Waterbury.*	B. Θ. Π. *House.*
§ Susie Hadley Potter,	*Ipswich, Mass.*	*274 High St.*
Arthur Wellington Price,	*West Southport, Me.*	Φ. P. *House.*

NAMES.	RESIDENCES.	ROOMS.
Samuel Quickmire,	*Middletown.*	*58 Wyllys Ave.*
John Reaveley, Jr.,	*Turner's Falls, Mass.*	Φ. P. *House.*
Walter Bright Rile,	*Wilmington, Del.*	B. Θ. Π. *House.*
George Douglas Robins,	*Dover, N. H.*	*250 High St.*
† Zula Elizabeth Rogers,	*Meriden.*	*197 High St.*
Benjamin Ernest Sibley,	*Pasadena, Cal.*	*238 High St.*
Walter Herbert Stevens,	*Albany, N. Y.*	4 N. C.
§ Irving Edward Strong,	*Portland.*	X. Ψ. *Lodge.*
Addie Frances Sweet,	*Leominster, Mass.*	*274 High St.*
§ Edward William Thompson,	*Waverly, N. Y.*	X. Ψ. *Lodge.*
Freeman Augustus Tower,	*Sterling Junction, Mass.*	*238 High St.*
§ Gilbert Haven Trafton,	*Chebeague, Me.*	Φ. P. *House.*
§ Isabel Maria Walbridge,	*Hartford.*	*274 High St.*
† Wilbur Sanford Weeks,	*Middletown.*	*297 College St.*
† Ralph Delano Whiting,	*Bound Brook, N. J.*	Ψ. Υ. *House.*
† Roland Henry Williams,	*Remsen, N. Y.*	53 N. C.
Elizabeth Caramossi Wright,	*Hartford.*	*274 High St.*
† William Abbott Wyatt,	*Norwalk.*	Ψ. Υ. *House.*
Eleanor Belle Yates,	*New Britain.*	*274 High St.*
Archer Everett Young,	*New Britain.*	Δ. Δ. Φ. *House.*
Arthur Evelyn Young,	*New Britain.*	Δ. Δ. Φ. *House.*

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
Addis Bliss Albro,	*Bridgeport.*	41 N. C.
§ Marcellus Chandler Avery,	*Plymouth, Mass.*	62 N. C.
† Norris Caleb Bailey,	*East Berlin.*	*East Berlin.*
Frederick Munson Barnes,	*Swanton, Vt.*	41 N. C.
John Spring Bedell,	*Fairdale, Pa.*	11 N. C.
§ Joseph Beech,	*Elizabeth, N. J.*	57 N. C.
Edward Samuel Belden,	*Bristol.*	63 N. C.
§ Julia Gertrude Bevin,	*East Hampton.*	*274 High St.*
Arthur Grant Boynton,	*Copenhagen, N. Y.*	57 N. C.
§ George Hurd Bragdon,	*Dorchester, Mass.*	*238 High St.*

NAMES.	RESIDENCES.	ROOMS.
Monroe Buckley,	*Morristown, N. J.*	*64 Church St.*
§ Arthur Harold Burdick,	*Elmira, N. Y.*	60 N. C.
Herbert Viets Camp,	*New Britain.*	43 N. C.
Horace Westlake Coons,	*Peekskill, N. Y.*	35 N. C.
William Clarence Darby,	*Hoosick Falls, N. Y.*	Δ. K. E. *House.*
Clarence Winfield Darling,	*Ogdensburg, N. Y.*	*188 Church St.*
Henry Davenport,	*Bridgeport.*	42 N. C.
§ Herbert Spencer Davis,	*Torringford.*	6 N. C.
§ Milton Howard Dawley,	*Holyoke, Mass.*	B. Θ. Π. *House.*
§ Bertram Frederick Dodd,	*Middletown.*	*Burr Ave.*
Frederick Lincoln Flinchbaugh,	*York, Pa.*	16 O. H.
Philip Eugene Garrison,	*Cranbury, N. J.*	55 N. C.
† Louis Gildersleeve,	*Gildersleeve.*	*Gildersleeve.*
Charles Gustavus Girelius,	*Vineland, N. J.*	15 N. C.
§ Arthur Frederick Goodrich,	*New Britain.*	60 N. C.
† James Gardner Goodwin,	*Bristol.*	X. Ψ. *Lodge.*
Charles Arthur Hadley,	*Black River, N. Y.*	31 N. C.
Robert Ellsworth Harned,	*Norwich.*	Ψ. Υ. *House.*
§ Isabella Sinclair Hill,	*Norwich.*	*274 High St.*
Perry Childs Hill,	*Newport, R. I.*	*188 Church St.*
† William Atwood Hilton,	*Waverly, N. Y.*	X. Ψ. *Lodge.*
§ William Brainard Hinkley,	*Canaan Street, N. H.*	B. Θ. Π. *House.*
Samuel Wolcott Hubbard,	*Wallingford.*	49 N. C.
† Fred Wooding Hutchinson,	*Bristol.*	63 N. C.
§ Margaret Elizabeth Jones,	*Middletown.*	*8 Huber Ave.*
Edwin Walter Kemmerer,	*Factoryville, Pa.*	*58 Wyllys Ave.*
§ May Elizabeth Kenneally,	*Middletown.*	*64 E. Court St.*
Albert Ernest Legg,	*Mapleville, R. I.*	———
William Henry Leslie,	*Portsmouth, N. H.*	14 N. C.
Charles Merton Lewis,	*Willsboro, N. Y.*	11 N. C.
§ Winifred May Lewis,	*Haddam.*	*276 College St.*
William Henry Littebrandt,	*Yonkers, N. Y.*	61 N. C.
Myron John McKowen,	*Brockton, Mass.*	6 N. C.
§ Fred Smith Madison,	*Montclair, N. J.*	16 N. C.
Wilbur Reed Mattoon,	*Liberty Corners, Pa.*	31 N. C.
† William Jay Merwin,	*Pawling, N. Y.*	*188 Church St.*
Edgar Augustine Miller, Jr.,	*Philadelphia, Pa.*	15 N. C.
§ Jessie Miller,	*Scranton, Pa.*	*274 High St.*
† Edward Louis Montgomery,	*South Manchester.*	A. Δ. Φ. *House.*

NAMES.	RESIDENCES.	ROOMS.
§ Olin Frederick Parent,	*Bondsville, Mass.*	X. Ψ. *Lodge.*
† William Eldridge Parker,	*Torrington.*	35 N. C.
Alice Lucas Paterson,	*Middletown.*	*110 Main St.*
Ward Wilson Pickard,	*Hornellsville, N. Y.*	58 N. C.
† Joseph Cooke Pullman,	*Bridgeport.*	58 N. C.
Florence Eveline Quickmire,	*Middletown.*	*58 Wyllys Ave.*
Ernest Martin Quittmeyer,	*Bridgeport.*	42 N. C.
Charles Harlow Raymond,	*Lawrenceville, N. J.*	49 N. C.
§ Irving Edward Raymond,	*Stamford.*	Ψ. Υ. *House.*
§ Emma Louisa Reed,	*Yonkers, N. Y.*	*274 High St.*
Willis Henry Reed,	*Stafford Springs.*	X. Ψ. *Lodge.*
Edward Hersey Richards,	*Newfields, N. H.*	45 N. C.
James Richard Richards,	*Middletown.*	47 N. C.
Alfred Eugene Roberts,	*Wethersfield.*	*238 High St.*
Charles Francis Rockwell,	*Meriden.*	59 N. C.
§ Nathan Lounsbury Rockwell, Jr.,	*South Norwalk.*	50 N. C.
† Burton Cephas Rogers,	*Meriden.*	A. Δ. Φ. *House.*
§ Frank Augustus Sargent,	*Bangor, Me.*	61 N. C.
Frank Forester Simonton,	*Winterport, Me.*	17 N. C.
§ Clarence Robertson Smith,	*Albany, N. Y.*	*188 Church St.*
§ Mae Deering Smith,	*Montpelier, Vt.*	*197 High St.*
§ Harry Russel Stone,	*Middletown.*	*96 William St.*
Ralph Cleaves Stone,	*Kent's Hill, Me.*	51 N. C.
John Edgar Tackaberry,	*New York, N. Y.*	*188 Church St.*
§ John Curtis Tennant,	*Wilkes-Barre, Pa.*	X. Ψ. *Lodge.*
Elizabeth Thompson,	*Pittston, Pa.*	*178 Church St.*
§ John Milton Townsend,	*Camden, N. J.*	16 N. C.
John Armstrong Wade,	*Brooklyn, N. Y.*	B. Θ. Π. *House.*
Fred Uriah Ward,	*Cherryfield, Me.*	17 N. C.
† Courtney Maujer Weaver,	*Brooklyn, N. Y.*	*250 High St.*
LeRoy Weller,	*Saltspringville, N. Y.*	47 N. C.
Helen Elizabeth Westgate,	*Middletown.*	*178 Church St.*
§ Mary Emma Wilcoxson,	*Stratford.*	*274 High St.*
§ Mary Emma Williams,	*Luzerne, Pa.*	*274 High St.*
Willard Warren Wilsey,	*Philadelphia, Pa.*	*72 College St.*
Newton Grant Wright,	*Middletown.*	*78 Cross St.*
Oliver Elizur Yale,	*Meriden.*	*Portland.*
Walter Dudley Yates,	*Rockville.*	62 N. C.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Adella Webster Bates,	*Rockville.*	*178 Church St.*
Archibald Elbridge Bradford,	*Augusta, Wis.*	*Ψ. Υ. House.*
Julia Brazos,	*Middletown.*	*136 High St.*
Robert Fenwick Jackson,	*Middletown.*	*392 Washington St.*
Herbert Hale Powers,	*Middletown, O.*	33 N. C.

SUMMARY.

GRADUATE STUDENTS,	16
SENIORS,	58
JUNIORS,	60
SOPHOMORES,	75
FRESHMEN,	87
SPECIAL STUDENTS,	5
TOTAL,	301

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
J. H.,	Judd Hall.
§	Latin-Scientific Course.
†	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year, and must be continued during the second year unless the student elects a very considerable proportion of his studies from the departments of Mathematics and Physics. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of Modern Languages, Science, and Literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those

students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.

TERMS OF ADMISSION.*

CLASSICAL COURSE.

Candidates for admission to the Classical Course are examined in the following books and subjects:—

LATIN.—1. Latin Grammar, including Prosody.

2. Caesar,—Gallic War, books I.–IV.

3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.

4. Vergil,—Eclogues; Æneid, books I.–VI.

5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.

6. Translation into Latin of simple English sentences and easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *hack-hire*, *haphazard*, *bôat-hook*; other consonants as in English.

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

* For prize for excellence in the studies preparatory to admission, see "Ayres Prize."

GREEK.—1. Greek Grammar,—Hadley-Allen's, or Goodwin's.
2. Xenophon,—four books of the Anabasis.
3. Homer,—three books of the Iliad.
4. Translation at sight of one or more passages from Xenophon.
5. Translation of simple English sentences into Greek.

HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.
2. History of Greece to the capture of Corinth, 146 B. C.
3. Ancient Geography.

The following books are recommended as the basis of instruction in History and Geography:—

1. Allen's Short History of the Roman People (Part II. of Myers and Allen's Ancient History), pp. 1–275.
2. Myers' Eastern Nations and Greece (Part I. of Myers' and of Myers and Allen's Ancient History), beginning with Section II.
3. Tozer's Primer of Ancient Geography.

Familiarity with map drawing is also especially desirable.

MATHEMATICS.—1. Algebra, through Progressions, including the use of the Binomial Formula for positive integral exponents,—so much, for example, as is contained in Wentworth's Elements of Algebra, or in the first seven books of Newcomb's Algebra for Colleges.
2. Plane Geometry,—the first five books of Chauvenet's Geometry, or their equivalent.

ENGLISH.—1. *Reading and Practice.* A limited number of books are assigned for reading. The candidate will be required to present evidence of a general knowledge of the subject-matter of these books and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination will be:—

1896—Shakspere's Midsummer Night's Dream; Defoe's History of the Plague in London; Irving's Tales of a Traveler; Scott's Woodstock; Macaulay's Essay on Milton; Longfellow's Evangeline; George Eliot's Silas Marner.

1897—Shakspere's As You Like It; Defoe's History of the Plague in London; Irving's Tales of a Traveler; Hawthorne's Twice Told Tales; Longfellow's Evangeline; George Eliot's Silas Marner.

1898—Milton's Paradise Lost, Books I. and II.; Pope's Iliad, Books I. and XXII.; the Sir Roger de Coverley Papers in The Spectator; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Southey's Life of Nelson; Carlyle's Essay on Burns; Lowell's The Vision of Sir Launfal; Hawthorne's The House of the Seven Gables.

1899—Dryden's Palamon and Arcite; Pope's Iliad, Books I., VI., XXII., and XXIV.; the Sir Roger de Coverley Papers in The Spectator; Goldsmith's The Vicar of Wakefield; Coleridge's The Ancient Mariner; De Quincey's The Flight of a Tartar Tribe; Cooper's The Last of the Mohicans; Lowell's The Vision of Sir Launfal; Hawthorne's The House of the Seven Gables.

1900—Dryden's Palamon and Arcite; Pope's Iliad, Books I., VI., XXII., and XXIV.; the Sir Roger de Coverley Papers in The Spectator; Goldsmith's The Vicar of Wakefield; Scott's Ivanhoe; De Quincey's The Flight of a Tartar Tribe; Cooper's The Last of the Mohicans; Tennyson's The Princess; Lowell's The Vision of Sir Launfal.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books will cover subject-matter, form, and structure, and also test the candidate's ability to express his knowledge with clearness and accuracy. The books set for this part of the examination will be:—

1896—Shakspere's Merchant of Venice; Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Webster's first Bunker Hill Oration.

1897—Shakspere's Merchant of Venice; Burke's Speech on Conciliation with America; Scott's Marmion; Macaulay's Life of Samuel Johnson.

1898—Shakspere's Macbeth; Burke's Speech on Conciliation with America; De Quincey's The Flight of a Tartar Tribe; Tennyson's The Princess.

1899—Shakspere's Macbeth; Milton's Paradise Lost, Books I. and II.; Burke's Speech on Conciliation with America; Carlyle's Essay on Burns.

1900—Shakspere's Macbeth; Milton's Paradise Lost, Books I. and II.; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and Addison.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course will be examined in the following books and subjects:—

LATIN.—Same requirements as for the Classical Course.

HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek History and Geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH or GERMAN, at the option of the candidate. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions. The work is intended to be substantially equivalent to Course I. in French or German as outlined below, pages 36 and 38.

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course have the option of the three following series of requirements:—

A.

MATHEMATICS.—Same requirements as for the Classical Course, with the addition of the following subjects:—

1. Solid Geometry,—the last four books of Chauvenet's Geometry, or their equivalent.

2. Plane and Spherical Trigonometry, with the use of logarithmic and trigonometric tables.

3. Analytical Geometry, including the straight line, the circle, and the elementary properties of the conic sections.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH or GERMAN, at the option of the candidate. Such a knowledge of the language chosen will be required as will enable the candidate to read easy passages at sight, and to answer elementary grammatical questions. The work is intended to be substantially equivalent to Course I. in French or German, as outlined below, pages 36 and 38.

NATURAL SCIENCE.—Any one of the three following courses, at the option of the candidate:—

I. *Botany and Physical Geography.*—1. In Botany the candidate must pass an examination in Gray's Lessons in Botany, and must show ability to dissect flowers of ordinary difficulty, and to write descriptions of them.

2. In Physical Geography, such a knowledge of the subject will be required as can be gained from the study of Geikie's Elementary Lessons.

II. *Chemistry.*—1. Such a knowledge of the subject will be required as can be gained from Eliot and Storer's Manual of Chemistry, omitting Chapters XV.-XVIII., inclusive, or from Remsen's Chemistry, Elementary Course.

2. The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

III. *Physics.*—1. Such a knowledge of the subject will be required as can be gained from Carhart and Chute's Elements of Physics, or Gage's Introduction to Physical Science.

2. The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. The experiments may be selected from such manuals as Worthington's Physical Laboratory Practice or Chute's Physical Laboratory Manual.

B.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH AND GERMAN.—The equivalent of Course I. in both French and German, and of Course II. in either French or German, at the option of the candidate. (See pages 36 and 38.)

NATURAL SCIENCE.—Same as specified under A.

C.

MATHEMATICS.—Same requirements as for the Classical Course.
ENGLISH.—Same requirements as for the Classical Course.
FRENCH OR GERMAN.—Same as specified under A.
NATURAL SCIENCE.—*All three* of the courses specified under A.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe.

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

PRELIMINARY EXAMINATIONS.—A student who has accomplished half or more of the preparatory course may be examined on that part and receive credit therefor a year or more in advance of the time at which he expects to enter college. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able to pass on at least half of the preparatory course.

DATE AND PLACE OF EXAMINATIONS.—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. But, if no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the major part of the above requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. Detailed information concerning admission by certificate may be obtained on application to the President, or to the Secretary of the Faculty; but no certificates are received covering the entrance requirements in Latin prose composition, sight reading of Latin (both prose and poetry), Greek prose composition, sight reading of Greek, French, German, English *(study and practice)*, natural science.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

LATIN.

PROFESSOR MERRILL; ASSOCIATE PROFESSOR NICOLSON.

I. LIVY,—Books 1 and 2. *First half-year.* PROFESSOR NICOLSON.

PLAUTUS,—Trinummus; TERENCE,—Phormio; CICERO,—De Senectute. *Second half-year.* PROFESSOR NICOLSON.

Exercises in sight translation and prose composition throughout the year. Section I., *Tu., Wed., Th., Fri., at 10;* Section II., *Tu., Wed., Th., Fri., at 12.*

Course I. is required of Classical and of Latin-Scientific Freshmen.

II. HORACE,—Odes and Epodes. *Tu., Th., at 11 (first half-year).* PROFESSOR NICOLSON.

CICERO,—Selected Letters. *Tu., Th., at 11 (second half-year).* PROFESSOR MERRILL.

III. PLINY THE YOUNGER,—Selected Letters. *Wed., Fri., at 11 (first half-year).* PROFESSOR MERRILL.

OVID, TIBULLUS, PROPERTIUS,—Selected Elegies. *Wed., Fri., at 11 (second half-year).* PROFESSOR NICOLSON.

Courses II. and III. are elective for those who have taken Course I., and prospective candidates for preliminary honors in classics are advised to elect both of these courses in the Sophomore year. Either of them may be elected for either half-year separately.

[IV. OVID,—the Fasti; with especial attention to historical and topographical questions. *Twice a week (first half-year).* PROFESSOR NICOLSON.

TACITUS,—Annals, Books 1–3. *Twice a week (second half-year).* PROFESSOR MERRILL.]

V. LUCRETIUS,—Books 1 and 3, and selections from the other books. *Wed., Fri., at 3 (first half-year).* PROFESSOR NICOLSON.

CATULLUS. *Wed., Fri., at 3 (second half-year).* PROFESSOR MERRILL.

VI. ROMAN SATIRE. ENNIUS, LUCILIUS, VARRO, HORACE,—Selections. *Tu., Th., at 3 (first half-year).* PROFESSOR MERRILL.

PETRONIUS, PERSIUS, SENECA, JUVENAL, APULEIUS,—Selections. *Tu., Th., at 3 (second half-year).* PROFESSOR NICOLSON.

Courses IV.–VI. are elective for those who have taken Courses I. and either II. or III. Courses IV. and V. may be elected for either half-year separately; Course VI. for the first half-year only, if desired. Course IV. alternates in successive years with Courses V. and VI., and is omitted the present year. Courses V. and VI. will be omitted in 1896–97, and Course IV. given.

VII. LATIN PROSE COMPOSITION. The course begins with the systematic study of the elementary principles of Latin rhetoric, accompanied by brief practical exercises, and proceeds, in the second half-year, to the rendering into Latin of connected passages of modern historical and epistolary prose. *Mon., at 3.* PROFESSOR NICOLSON.

Course VII. is elective for those who have taken Course I., and prospective candidates for preliminary honors in classics are advised to elect it in the Sophomore year.

[VIII. LATIN PROSE COMPOSITION. A course in continuation of Course VII., involving original composition in Latin on historical, descriptive, and argumentative themes. *Once a week.* PROFESSOR MERRILL.]

Course VIII. is elective for those who have taken Course VII. It is omitted the present year, but will be given in 1896–97.

[IX. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original authorities, and the careful preparation of note-books. *Twice a week.* PROFESSOR MERRILL.]

X. ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original authorities, and the careful preparation of note-books. *Mon., at 9; Th., at 10.* PROFESSOR MERRILL.

Courses IX. and X. are given in alternate years, the latter being given the present year. They are elective for those who have taken Course I., provided the previous approval of the instructor is obtained.

The following courses are intended primarily for graduate students, but undergraduates who are especially well qualified may be admitted to any of them on special application to the instructor:—

XI. BOOK AND JOURNAL CLUB, for the tracing of current progress in Latin literature and Roman archaeology. *Once a week.* PROFESSORS MERRILL AND NICOLSON.

XII. LATIN EPIGRAPHY. A course for beginners, based upon Cagnat's Cours d'Épigraphie Latine, Rushforth's Latin Historical Inscriptions, and Dessau's Inscriptiones Latinae Selectae, with constant reference to other works. This course is supplemented by a brief course of lectures upon the rudiments of Latin palaeography, accompanied by practical exercises and demonstrations. *Tu., Fri., at 9.* PROFESSOR MERRILL.

XIII. METHODS OF RESEARCH. A course of practice in the investigation of simple problems in Roman history and literature, and in the preparation of papers in Latin embodying the results of the research. Two hours a week are usually spent with the instructor for criticism and direction, but the course requires of the student a much greater amount of time in comparison with other courses than is indicated by this period. *Twice a week.* PROFESSOR MERRILL.

XIV. LATIN SEMINARY. A course of practice in the minute and critical interpretation of some Latin author, and in the preparation and criticism of papers on themes connected with the work of interpretation. The methods followed are based upon those of the German *Seminar.* The authors selected for interpretation vary from year to year. Each meeting lasts two hours. *Twice a week.* PROFESSOR MERRILL.

For the successful prosecution of Courses II.–VI., IX., and X., an ability to read German prose on philological subjects is especially desirable, and for Courses XI.–XIV., it is necessary. Students, therefore, who look forward to the study of Latin beyond the required course, and who have on admission to college no acquaintance with German, should elect German in the Freshman year.

GRADUATE INSTRUCTION. (See statement introductory to Courses XI.–XIV.)

GREEK.

PROFESSOR VAN BENSCHOTEN; DR. PATON.

I. HERODOTUS,—Selections. Greek prose composition. *First term.* DR. PATON.

LYSIAS,—Selected Orations. Greek prose composition. *Second term.* DR. PATON.

HOMER,—Odyssey V.-VIII. Prosody; Homeric language; the Homeric question. *Third term.* DR. PATON.

Sight-reading is practiced throughout the year. Section I., *Mon., Tu., Wed., Th., at 9;* Section II., *Mon., Tu., Wed., Th., at 11.*

Course I. is required of Classical Freshmen.

II. DEMOSTHENES,—Philippics. Greek prose composition. The collateral reading covers the history of the rise of the Macedonian Empire. *First term.* DR. PATON.

PLATO,—Euthyphro, Apology, Crito, Phaedo. Studies in Greek philosophy. Lectures and collateral reading. *Second term.* DR. PATON.

SOPHOCLES,—Oedipus Tyrannus. Lectures on the Greek drama, with collateral reading. *Third term.* DR. PATON.

Section I., *Mon., Th., at 8;* Section II., *Tu., Fri., at 10.*

Course II. is elective for those who have taken Course I.

III. THE LIFE AND LANGUAGE OF THE GREEKS. *Th., at 10.* PROFESSOR VAN BENSCHOTEN.

Course III. is elective for those who have taken Course I., and who take or have taken Course II.

[IV. GREEK COMEDY. The Frogs and the Acharnians of Aristophanes. GREEK TRAGEDY. Aeschylus, Sophocles, Euripides. *Three times a week.* PROFESSOR VAN BENSCHOTEN.]

V. GREEK PHILOSOPHY. The Clouds of Aristophanes; Aristotle's Poetics; Xenophon; Euripides. *Mon., Wed., Fri., at 10.* PROFESSOR VAN BENSCHOTEN.

In connection with Courses IV. and V., weekly meetings are held for special studies in Greek life, language, and literature.

Courses IV. and V. are elective for those who have taken Courses I.–III. They are given in alternate years, Course V. being given the present year.

VI. BIBLICAL GREEK. Acts and Epistles. The text used is Scrivener's New Testament in Greek, with the Revisers' Readings.

Collateral studies; texts and translations. *Tu., Th., at 8.* PROFESSOR VAN BENSCHOTEN.

Course VI. is elective for those who have taken Course II.

VII. LYRIC POETRY. PINDAR. *Mon., Wed., Fri., at 8 (first term).* PROFESSOR VAN BENSCHOTEN.

LUCIAN. *Mon., Wed., Fri., at 8 (second term).* PROFESSOR VAN BENSCHOTEN.

PAUSANIAS; NEO-HELLENIC,—with collateral work on the geography and topography of Greece. *Mon., Wed., Fri., at 8 (third term).* PROFESSOR VAN BENSCHOTEN.

One meeting each week is devoted to special advanced studies of the nature indicated under Courses IV. and V.

Course VII. is elective for those who have taken either Course IV. or Course V.

VIII. GREEK SEMINARY. Greek Archaeology and Art. *Tu., at 10 (counting as twice a week).* PROFESSOR VAN BENSCHOTEN.

Course VIII. is elective for those who have taken Courses I.–III.

IX. GREEK EPIGRAPHY. Hicks' Manual of Greek Historical Inscriptions. Lectures. Practice in reading from squeezes and facsimiles. *Mon., at 4.* DR. PATON.

Course IX. is elective for those who have taken either Course IV. or Course V.

It is very desirable that those who elect advanced courses in Greek should be able to read German prose on philological subjects.

GRADUATE INSTRUCTION. Courses VIII. and IX., although elective for advanced undergraduates, are designed also for graduate students.

GERMAN.

DR. A. W. JAMES.

I. Thomas' Practical German Grammar, Wenckelbach's Lesebuch, Heyse's Mädchen von Treppi, Riehl's Gerechtigkeit Gottes, Zschokke's Der tote Gast. *Mon., Wed., Fri., at 8.*

For rules in regard to the election of I. German, see page 39.

II. Schiller's Wilhelm Tell, Lessing's Minna von Barnhelm, Goethe's Hermann und Dorothea. Collateral readings in nineteenth century authors: Freitag, Gutzkow, Auerbach, Eichendorff, Spielhagen, and others. Translation of English into German. A few lectures in German on the authors read are given by the instructor. *Mon., Wed., Fri., at 10.*

Course II. is elective for those who have taken Course I.

[III. Goethe's Faust and Egmont. Collateral readings in Goethe and contemporary authors. Reports by members of the class. Lectures. *Twice a week.*]

Course III. is elective for those who have taken Course II. It is omitted the present year.

IV. Schiller's Jungfrau von Orleans, Maria Stuart, Wallensteins Lager, Piccolomini, and Wallensteins Tod. Selected works of other authors are read, but not translated, questions on the subject-matter being put and answered in German. Collateral readings and reports by members of the class. Translations of English into German. *Tu., Th., at 3 (counting as three times a week).*

Course IV. is elective (with some restrictions) for those who have taken Course II.

V. GERMAN PROSE COMPOSITION, based on von Jagemann's German Prose Composition and von Jagemann's German Syntax. Oral translation of an easy English text into German. *Th., at 9.*

Course V. is elective for those who have taken Course II.

[VI. MIDDLE HIGH GERMAN. Paul's Mittelhochdeutsche Grammatik, Nibelungenlied, Walther von der Vogelweide, Wolfram von Eschenbach. The Old High German Denkmäler, Hildebrandslied, Muspilli, Ludwigslied, and extracts from Otfrid and others are also interpreted for the class by the instructor. *Once a week.*]

Course VI. is elective for those who have taken Course III. or Course IV. It is omitted the present year.

VII. OLD HIGH GERMAN. Braune's Abriss der Althochdeutschen Grammatik, Braune's Althochdeutsches Lesebuch. *Once a week.*

Course VII. is elective for those who have taken Course VI.

GRADUATE INSTRUCTION. Course VII. is designed in part for graduate students.

ROMANCE LANGUAGES.

PROFESSOR KUHNS.

I. FRENCH. Whitney's Practical French Grammar, Part I. De Maistre,—La Jeune Sibérienne, Le Lépreux de la Cité d'Aoste; Champfleury,—Le Violon de Faïence; Victor Hugo,—Bug Jargal; Mérimée,—Colomba; Verne,—Le Tour du Monde en Quatre-vingts Jours. Part of the above books are read at sight. There is also personal drill in pronunciation. *Mon., Wed., Fri., at 8.*

For rules in regard to the election of I. French, see page 39.

II. FRENCH. Whitney's Grammar, Part II., and Roulier's Second Book of French Composition. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. Books read this year are: Balzac,—Le Curé de Tours; Pierre Loti,—Pêcheur d'Islande; Beaumarchais,—Le Barbier de Seville; Musset,—Selections; Victor Hugo,—Hernani; Racine,—Andromaque; Molière,—Le Misanthrope; Feuillet,—Le Roman d'un Jeune Homme Pauvre; Ohnet,—Le Maître de Forges. *Tu., Th., at 8.*

Course II. is elective for those who have taken Course I.

III. FRENCH. French conversation. Bercy,—Le Français Pratique; Hennequin,—Lessons in Idiomatic French. During the year informal lectures on European travel are given in French, some of which are illustrated by lantern-slides. *Mon., at 11.*

Course III. is elective for Sophomores who have taken Course I., and have received special permission from the instructor.

IV. FRENCH. French literature in the seventeenth, eighteenth, and nineteenth centuries. The following books are read, but not translated, questions on the subject-matter being put and answered in French: Corneille,—Le Cid; Racine,—Phèdre; Molière,—L'Avare; La Fontaine,—Fables; Boileau,—L'Art Poétique; Voltaire,—Mérope; Rousseau,—selections; Chateaubriand,—Atala; Lamartine,—selections; Victor Hugo,—Hernani, and lyrical poetry; Musset,—comedies, stories, and poetry; Balzac,—Eugénie Grandet.

There is at each recitation translation of English into French. Further, frequent lectures in French are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries.

In addition, each member of the class must take a somewhat extended course of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of a selected author. For the first half-year these readings will be in early French drama, in Corneille, Racine, Molière, La Fontaine, Voltaire, and Rousseau; for the second half-year, in Chateaubriand, Lamartine, Victor Hugo, Alfred de Musset, Balzac, and George Sand. *Tu., Th., at 10 (counting as three times a week).*

Course IV. is elective for those who have taken Courses I.–III.

V. OLD FRENCH. Constans' Chrestomathie de l'Ancien Français. Exercises in Old French etymology, based on La Vie de Saint Alexis.

Each member of the class must select one of the following subjects for investigation, and write an essay on the result of his study:—(1) Miracle and Mystery Plays, (2) Aymeri de Narbonne and the Geste de Guillaume, (3) Chanson de Roland and the Geste du Roi. *Wed., at 12 (counting as twice a week).*

Course V. is elective for those who have taken Courses I.–IV.

VI. SEMINARY. Special investigations in French language and literature. *Once (counting as twice) a week.*

Course VI. is elective for those who have taken all the preceding courses.

VII. ITALIAN. Italian Principia, I. De Amicis,—Cuore; Manzoni,—I promessi Sposi; Pellico,—Le mie Prigioni. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the Inferno and the Purgatorio of Dante, the last half-hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rossetti's Shadow of Dante. *Wed., Fri., at 3.*

Course VII. is elective for Sophomores who have taken I. French.

HONOR COURSE. Candidates for special honors in Romance Languages who are making special study of the Divine Comedy, meet the instructor once in two weeks for consultation.

GRADUATE INSTRUCTION. Courses V. and VI. are designed for graduate students, but are elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are required to pursue one course in French or German; they may continue

the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to take the equivalent of Courses I. and II. in French, and I. and II. in German. Such of these courses as they have not pursued before entering college, they must take as soon as possible after entering.

†ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Pancoast's Introduction to English Literature, with lectures. *Mon., Wed., Fri., at 11; Tu., at 12 (first term).*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspere's Hamlet; selections from Pope's Satires. *Mon., Wed., Fri., at 11; Tu., at 12 (second term).*

3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose any one of the courses in Winchester's Five Short Courses of Reading in English Literature. These courses consist of selections from the following authors:—

(1.) 1559–1674. Marlowe, Green, Shakspere, Bacon, Milton.

(2.) 1660–1745. Dryden, Addison, Steele, Swift; with Johnson's Lives of Dryden, Swift, and Pope, and Thackeray's Lectures on the English Humourists.

(3.) 1745–1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's Life of Johnson, Dobson's Life of Goldsmith, Morley's Life of Burke.

(4.) 1789–1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.

(5.) 1832–1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson.

Course I. is elective for Juniors.

II. ENGLISH LITERATURE of the Period of Queen Anne, 1700–1745. Defoe, Steele, Addison, Swift, Pope. Critical reading and

† The irregularities in the schedule of this department for the present year are due to the contemplated absence of Professor Winchester during the third term.

discussion; lectures. Section I., *Mon., Wed., Fri., at 10 (first term); Mon., Wed., at 10 (second term).* Section II., *Mon., Wed., Fri., at 12 (first term); Mon., Wed., at 12 (second term).*

Course II. counts as *three times a week* for the year.

[III. ENGLISH LITERATURE of the Victorian period, 1832–1880. Carlyle, Ruskin, Matthew Arnold, Tennyson, and Browning. Critical reading and discussion; lectures. *Twice (counting as three times) a week.*]

Courses II. and III. are elective (with some restrictions) for those who have taken Course I. Course II. will be omitted in 1896-97. Course III. is omitted the present year.

IV. THE ELEMENTS OF LITERARY CRITICISM. A course of lectures upon the essential elements and the various forms of literature, with practical exercises in the application of critical principles. *Tu., at 11 (first and second terms), counting as once a week for the year.*

Course IV. is elective for Seniors who take, or have taken, Course I.

VII. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior must write an argument for debate before his class, and either four essays or two orations. All written work receives the personal criticism of the instructor, and the orations are also rehearsed before the Professor of Elocution.

GRADUATE INSTRUCTION. The following courses are open to graduate students only:—

V. THE HISTORY OF ENGLISH LITERARY CRITICISM. An outline study of the growth and development of English criticism, and of the changes in critical standards and in literary forms from 1579 to 1789.

Sidney's Defense of Poesie, Dryden's Prefaces and Essay on Dramatic Poetry, Addison's Papers on Paradise Lost, and selections from the critical writings of Johnson and Goldsmith, will be studied as representing various phases of English critical opinion. *Wed., at 4 (first and second terms), counting as once a week for the year.*

In connection with Course V. special work is being done the present year on the history of the heroic couplet from 1600 to 1725.

VI. THE ELIZABETHAN DRAMA. A survey of the origin of the Elizabethan drama with some notice of the principal works of Shakspere's immediate predecessors, followed by more careful study of a somewhat large group of Shakspere's most important dramas. *Fri., at 4 (first and second terms), counting as once a week for the year.*

ENGLISH LANGUAGE.

PROFESSOR MEAD.

I. A. ENGLISH LANGUAGE. General History of the English Language, with lectures and illustrative examples from Anglo-Saxon. Emerson's History of the English Language; Cook's First Book in Old English. Skeat's Concise Etymological Dictionary is used for reference. *Mon., at 3 (counting as twice a week).*

B. ENGLISH LITERATURE. Selected essays of Macaulay, with lectures, extracts from the authors discussed in the Essays, and collateral reading in English history. *Fri., at 3 (counting as twice a week).*

Freshmen are required to take either Course I. A or Course I. B.

II. RHETORIC. Hill's Principles of Rhetoric. The members of the class are required to write, in addition to their regular essays, weekly exercises illustrating and applying the principles laid down in the text-book. These exercises are discussed and criticised by the class. As a study in modern prose style, the class read and discuss in the class-room the essays by Macaulay and Carlyle on Croker's edition of Boswell's Life of Johnson, and Thackeray's Lectures on the English Humourists of the Eighteenth Century, and analyze the addresses in Baker's Specimens of Argumentation. *Tu., Wed., Fri., at 9 (first half-year).*

Course II. is required of Sophomores.

III. ENGLISH COMPOSITION. A. Each member of the Freshman class is required to present frequent written exercises, based upon the collateral reading in Course I. A or Course I. B. The theory of composition is treated in a brief course in elementary rhetoric.

B. Sophomores write six essays during the year on subjects approved by the instructor. Each member of the class meets the instructor privately for individual criticism.

C. Juniors write on subjects of their own selection, and choose one of the two following courses:—Course I., consisting of five general, and two departmental, essays; Course II., consisting of two general, and four departmental, essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor. Appointments for individual criticism are made for each member of the class.

[IV. ANGLO-SAXON. 1. Bright's Anglo-Saxon Reader, with an introductory course in Cook's First Book in Old English. Sievers'

Old English Grammar is used for reference. Skeat's English Etymology is taken as the basis for studies in derivations. For exercises in sight translation, Plummer's Selections from the Anglo-Saxon Chronicle are read in class. As collateral reading, Freeman's Old English History and Gardiner's Student's History of England are recommended. The history of Anglo-Saxon literature is treated in a course of weekly lectures.

2. Each member of the class is required, in addition, to select one of the following courses for private reading:—(1) The Anglo-Saxon Chronicle, entire. (2) Cynewulf's Elene or Cædmon's (?) Exodus and Daniel. *Twice a week.*]

Course IV. is elective for Sophomores who have taken Course I. A. It must be taken by all who intend to elect the courses in Early English. It is omitted the present year.

V. EARLY ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's Specimens of Early English. The historical development of the literature is discussed in a course of weekly lectures (see Course VI.). For collateral reading, ten Brink's History of English Literature is recommended.

2. Each member of the class elects one of the following courses of collateral reading, and presents at least one thesis on a topic requiring special investigation:—

(1) Selections from the Arthurian Romances, with a study of some of their sources. (2) Selections from the Charlemagne Romances. (3) Selections from Chaucer's Canterbury Tales and minor poems. *Tu., Wed., at 3.*

Course V. is elective for those who have taken Course IV. Those who elect it must also elect Course VI.

Courses IV. and V. are given in alternate years, Course V. being given this year.

VI. A course of lectures on English Literature from the Norman Conquest to the Revival of Learning. The aim of this course is to point out the relations of the early literature of England to the contemporary literature of Europe, and to indicate the materials that have been used again in modern English literature. Especial attention is given to the Arthurian Romances and to Chaucer. *Th., at 3.*

Course VI. is elective for Juniors, even for those who have not taken Course IV., but is required of those who elect Course V.

GRADUATE INSTRUCTION. Graduate courses may be arranged by conference with the head of the department. Special study is being given the present year to the phonology, inflexions, and syntax of the Middle English romance, "Lancelot of the Laik."

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Members of the Freshman class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six, declamations in the year.

II. THEORY OF ELOCUTION. The work of the first term is given to the mechanics of speech and to the theories of vocal expression, together with numerous examples in practice. The text-book used is Russell's Vocal Culture, which is supplemented by occasional lectures.

The second term is devoted to the theory of gesture, chiefly in accordance with the principles of Austin and Delsarte. Practical illustrations of the subject are given. The text-book used is Bacon's Manual of Gesture.

The third term is devoted to the study of the best expression in the forensic, dramatic, descriptive, and narrative styles. Lectures are given upon extempore speech and the sources of power in oratory. Each student is required during this term to prepare one forensic, and one descriptive, original declamation, to be delivered before the class for criticism. *Tu., Th., at 3.*

Course II. is elective for Juniors.

HISTORY.

ASSOCIATE PROFESSOR DENNIS.

[I. OUTLINES OF GENERAL HISTORY. The course includes a sketch of the origin and theory of the state; a survey of the ancient civilizations of the East, the institutions of Greece and Rome, the

Christian Church before the hierarchic centuries, the Holy Roman Empire and the fusion of Teutonic custom with Roman law, the origin and development of modern European state systems. Lectures and required parallel reading. *Twice a week.*]

Course I. is elective for Juniors. It is omitted the present year, but will be given in 1896-97.

II. HISTORY OF ENGLAND AND FRANCE. The course extends from the Roman conquests of Gaul and Britain to the close of the Napoleonic wars. Gardiner's History of England (Student's Edition) and Duruy's History of France are read in connection with the lectures. *Wed., Fri., at 12.*

Course II. is elective for Juniors.

III. CONSTITUTIONAL HISTORY. A study in the origin and development of constitutional government. The course has to do mainly with the genesis and growth of the English Constitution. Special attention is directed to the discovery of the sources of the American Constitution. Throughout the course constant reference is made to Taswell-Langmead's English Constitutional History, Dicey's Law of the Constitution, and Stevens' Sources of the Constitution of the United States. *Wed., Fri., at 3 (first half-year).*

Course III. is elective for Juniors.

IV. POLITICAL AND ECONOMIC HISTORY OF THE UNITED STATES. The course is introduced by a brief survey of the period of colonization, and of the struggle between the French and English for possession. An extended examination of the political and economic life of the United States during the first century of the constitution follows. Oral recitations upon the lectures and the required collateral readings are held regularly at intervals of two weeks. *Mon., Th., at 9.*

Course IV. is elective for Juniors.

V. HISTORICAL SEMINARY. The subject the present year is a comparison of parliamentary and congressional government. Reports on assigned topics are required from each member of the class. *Wed., Fri., at 3 (second half-year).*

Course V. is elective for Seniors, and for Juniors who have taken Course III.

ECONOMICS AND SOCIAL SCIENCE.

ASSOCIATE PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General Introductory Course. Recitations and discussions on the basis of Gide's Principles of Political Economy. *Tu., Wed., Fri., at 9 (second half-year).*

Course I. is required of Juniors.

II. ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Ingram's History of Political Economy and Cossa's Introduction to the Study of Political Economy, and critical studies in the writings of some of the great economists: Smith, Malthus, Ricardo, Say, Senior, Mill, Cairnes, Jevons, Roscher, Wagner, Marshall, and Pierson. Topics will also be assigned to the members of the class for individual investigation and report. *Mon., Wed., at 10.*

Course II. is elective for those who have taken Course I.

[III. PUBLIC FINANCE. The work of this course is based on Bastable's Public Finance, Ely's Taxation in American States and Cities, and Adams' Public Debts. Readings are assigned in standard reference books, a number of lectures are given, and the members of the class present reports. *Twice a week.*]

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. MONEY AND BANKING. A course of lectures on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. Collateral readings are assigned, frequent written reviews are held, and the members of the class present reports on assigned topics. *Tu., Th., at 10.*

Course IV. is elective for those who have taken Course I.

V. SOCIAL SCIENCE. A course of lectures and discussions on the various topics usually designated Social Science. The following are included: The nature and scope of Sociology and the methods of sociological study; the defective and delinquent classes; pauperism and charity; immigration; the family, marriage and divorce. Reports on special topics are required from the class. *Mon., Th., at 8.*

Course V. is elective for those who have taken Course I.

VI. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation some problem in economics, finance, statistics, or sociology, and week by week reports in class on progress made and obstacles met. At the close of each of the first two terms, essays summarizing the results so far attained are submitted, and in June the work of the year is brought together in a final report or thesis. *Tu., at 11 (counting as twice a week).*

Course VI. is elective (with some restrictions) for those who take Course II. and either Course III., IV., or V.

GRADUATE INSTRUCTION. Course VI. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II., III., IV., and V., while open to Seniors, may also be taken with advantage by graduates who have studied only the principles of Economic Science.

PHILOSOPHY.

PROFESSOR ARMSTRONG; MR. SHAW.

I. LOGIC. Jevons-Hill's Elements of Logic. The aim of this course is to ground the student in the fundamental forms of reasoned thinking, deductive and inductive alike. Logic is viewed not merely as a preliminary philosophical discipline, but as preparatory to all later and more advanced work. The study of the text-book is emphasized by numerous examples in logical praxis. Section I., *Tu., Fri., at 9;* Section II., *Tu., Fri., at 3 (second half-year).* MR. SHAW.

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities, as Ladd's Outlines of Physiological Psychology, McCosh's Psychology, James's Principles of Psychology, and Baldwin's Handbook of Psychology. Instruction is not confined to the text-book, but lectures and discussions are used to explain and supplement it. These are introduced especially in illustration of the more recent psychological investigations, and of positions still under debate. *Tu., Wed., Fri., at 9 (first half-year).* PROFESSOR ARMSTRONG.

Course II. is required of Juniors.

III. PHYSIOLOGICAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology; lectures, discussions, simple demonstrations and experiments. This course is planned as a supplement to Course II. The subjects treated embrace the elements of psychology from the physiological and experimental standpoint. *Wed., Fri., at 8 (second half-year).* MR. SHAW.

Course III. is elective for Juniors.

IV. LOGIC AND INTRODUCTION TO PHILOSOPHY. *(a)* Mill's System of Logic; lectures, recitations, and discussions—with especial consideration of the principles of induction, scientific reasoning, and discovery. MR. SHAW. *(b)* Ten lectures on Introduction to Philosophy, with references to Stuckenberg's Introduction to the Study of Philosophy and to Ladd's Introduction to Philosophy. PROFESSOR ARMSTRONG. *Tu., Th., at 11 (first half-year).*

Course IV. is elective for Juniors.

V. ANCIENT AND MEDIÆVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Tu., Th., at 11 (second half-year).* PROFESSOR ARMSTRONG.

Course V. is elective, under ordinary circumstances, for those who have taken Course IV.

VI. MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. An outline history of the development of philosophic thought in the first part of the modern era. Falckenberg's History of Modern Philosophy, with lectures and references to other standard histories, as Schwegler, Ueberweg, Erdmann, Windelband; recitations and discussions on the systems considered. *Wed., Fri., at 11 (first half-year).* PROFESSOR ARMSTRONG.

Course VI. is elective, under ordinary circumstances, for those who have taken Courses IV. and V.

VII. MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Wed., Fri., at 11 (second half-year).* PROFESSOR ARMSTRONG.

Course VII. is elective for those who have taken Course VI.

[VIII. ADVANCED PSYCHOLOGY. James's Principles of Psychology, with references to other authorities. This course is designed for honor students and for others who may wish to make a special study of modern psychology. It is given only in those years when there

is need or demand for advanced work, and is open only to students who make special application to the instructor for admission. *Twice a week (second half-year).* PROFESSOR ARMSTRONG.]

Course VIII. is elective for graduate students, for Seniors, and for Juniors who are specializing in psychology with a view to honors in philosophy. It is omitted the present year.

IX. HISTORICAL SEMINARY. The subject for the present year is Transitional Eras in Thought. The Sophistic period in Greece, the Era of the Renaissance and the Reformation, and the Eighteenth Century in France and Germany, are studied in comparison with the empirical and agnostic movements of the present century. *Mon., Th., at 11 (first half-year; counting as three times a week).* PROFESSOR ARMSTRONG.

Course IX. is elective for graduate students, and for Seniors who have taken Courses IV. and V. and are taking Course VI.

X. METAPHYSICAL SEMINARY. The subject for the present year is the Philosophy of Lotze, discussed chiefly from the standpoint of the Metaphysics. *Mon., at 11; Th., at 9 (second half-year; counting as three times a week).* PROFESSOR ARMSTRONG.

Course X. is elective for graduate students, and for Seniors who have taken Courses IV., V., and VI., and are taking Course VII.

HONOR COURSE. Candidates for honors in psychology are required to spend one afternoon a week, first half-year, in experimental work with MR. SHAW.

GRADUATE INSTRUCTION. Courses VIII., IX., and X. are intended for graduate students as well as for advanced undergraduates. Courses of reading under the supervision of the instructors of the department may be arranged in advanced theoretical psychology, historical philosophy, and metaphysics.

ETHICS AND EVIDENCES OF CHRISTIANITY.

PRESIDENT RAYMOND; PROFESSOR RICE.

I. ETHICS. Lectures upon the chief subjects in philosophical ethics, with a brief study of Christian ethics. Herbert Spencer's Data of Ethics and a part of Martineau's Types of Ethical Theory are reviewed in the class. *Tu., Wed., Fri., at 9 (second term).*

Course I. is required of Seniors.

II. EVIDENCES OF CHRISTIANITY. Lectures, with collateral readings on all the important topics. *Tu., Wed., Fri., at 9 (third term).* Course II. is required of Seniors.

III. THEISM. Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Wed., at 3 (second half-year; counting as twice a week).*

Course III. is elective for those who have taken Courses I., II., IV.–VI. in Philosophy, and who take VII. Philosophy.

IV. RELATIONS OF SCIENCE AND RELIGION. A course of lectures on the history of important advances in scientific thought, and their bearings on theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. *Tu., Fri., at 3 (second half-year).* PROFESSOR RICE.

Course IV. is elective for Juniors and Seniors. It will be omitted in 1896–97.

MATHEMATICS AND ASTRONOMY.

PROFESSOR J. M. VAN VLECK; ASSOCIATE PROFESSOR E. B. VAN VLECK; DR. EICHELBERGER.

I. SOLID GEOMETRY. Chauvenet's Elementary Geometry *(first third of the year).* TRIGONOMETRY,—Plane and Spherical *(second third of the year).* ANALYTICAL GEOMETRY,—elementary course *(last third of the year).* Section I., *Mon., Tu., Th., Fri., at 9;* Section II., *Mon., Tu., Th., Fri., at 10.* DR. EICHELBERGER. Section III., *Mon., Tu., Th., Fri., at 12.* PROFESSOR E. B. VAN VLECK.

Course I. is required of Classical and Latin-Scientific Freshmen, and of Scientific Freshmen who enter according to requirements B or C (see pages 29 and 30).

II. ALGEBRA,—advanced course *(first half-year).* ANALYTICAL GEOMETRY,—advanced course *(second half-year). Tu., Th., at 11.* DR. EICHELBERGER.

Course II. is elective for those who have taken Course I.

III. ELEMENTARY MECHANICS,—involving only elementary mathematics, and designed as an introduction to all the elective courses in Physics and Astronomy. *Mon., at 3; Th., at 4.* PROFESSOR J. M. VAN VLECK.

Course III. is elective for those who have taken Course I.

IV. DIFFERENTIAL AND INTEGRAL CALCULUS, — elementary course. Osborne's Treatise on Differential and Integral Calculus. *Mon., Wed., Fri., at 11.* PROFESSOR E. B. VAN VLECK.

Course IV. is elective for those who have taken Course I.

Courses II. and IV. are necessary for those who purpose to pursue advanced courses in pure mathematics: Courses III. and IV., for those intending to pursue advanced courses in physics and other branches of applied mathematics.

V. INTEGRAL CALCULUS,—including DIFFERENTIAL EQUATIONS. *Mon., Th., at 12; Tu., at 3.* DR. EICHELBERGER.

Course V. is elective for those who have taken Course IV.

VI. DIFFERENTIAL EQUATIONS,—a course of lectures based on more recent methods. *Wed., at 12; Th., at 10.* PROFESSOR E. B. VAN VLECK.

Course VI. is elective for those who have taken Course IV., and may be elected in connection with, or independently of, Course V.

VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS,—including especially a study of mathematical models. *Wed., Fri., at 12.* PROFESSOR J. M. VAN VLECK.

Course VII. is elective for those who have taken Course II., and who take or have taken Course IV.

VIII. HIGHER PLANE CURVES, preceded by a short course in PROJECTIVE GEOMETRY, conducted on seminary methods. *Wed., Fri., at 10.* PROFESSOR E. B. VAN VLECK.

Course VIII. is elective for those who have taken Courses II. and IV.

IX. THEORY OF FUNCTIONS,—based on Forsyth's Treatise on the Theory of Functions. *Mon., at 9; Fri., at 3.* PROFESSOR E. B. VAN VLECK.

Course IX. is elective for those who have taken Course IV.

X. ANALYTICAL MECHANICS. *Tu., Fri., at 9.* PROFESSOR J. M. VAN VLECK.

Course X. is elective for those who have taken Courses V. and VII.

XI. ASTRONOMY,—a general course, requiring only elementary mathematics. *Mon., Th., at 9.* PROFESSOR J. M. VAN VLECK.

Course XI. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

XII. SPHERICAL AND PRACTICAL ASTRONOMY,—based on Chauvenet's Manual, with practical exercises in the observatory. *Mon., Th., at 12 (counting as three times a week).* PROFESSOR J. M. VAN VLECK AND DR EICHELBERGER.

GRADUATE INSTRUCTION. Of the foregoing, Courses VI., VIII., IX., and XII. are designed for graduates and undergraduates. Course X. is adapted, the present year, to graduates only.

PHYSICS.

†PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course, using Carhart's University Physics as a text-book, involving only elementary mathematics. *Mon., Tu., Th., Fri., at 12 (first term); Tu., Th., at 12 (second and third terms).*

Course I. is required of Classical and Latin-Scientific Sophomores and of Scientific Freshmen who enter according to requirements A or B (see pages 28 and 29).

II. ELEMENTARY PRACTICAL PHYSICS,—involving such experiments as are described, for example, in Hall and Bergen's Text-book of Physics, or in Worthington's Physical Laboratory Practice. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (any two of these hours, at the discretion of the student).*

Course II. is elective for those who take, or have taken, Course I.

III. 1. HEAT. Garnett's Elementary Treatise on Heat. *Mon., Wed., Fri., at 10 (first term).* 2. ELECTRICITY. S. P. Thompson's Electricity and Magnetism. *Mon., Wed., Fri., at 10 (second and third terms).*

Course III. is elective for those who have taken Course I.

[IV. SOUND AND LIGHT. A course of lectures, mainly theoretical, but with frequent experimental illustrations, covering in an elementary manner simple harmonic motion, the principal phenomena of

† Absent for the year.

sound, geometrical optics, and the wave theory of light. *Three times a week.*]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

[V. ELEMENTARY APPLIED ELECTRICITY. In the first half-year S. P. Thompson's Lessons is used. In the second half-year the course consists of lectures giving the modern theory of the electro-magnet, and applying it to dynamos, motors, and other electrical apparatus. This course is, in the main, theoretical rather than technical. *Twice a week.*]

Course V. is elective for those who have taken Course I. It is omitted the present year.

VI. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, Carhart and Patterson, and Stewart and Gee. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (twice or three times a week).*

Course VI. is elective for those who have taken Course I.

VII. PRACTICAL PHYSICS. A continuation of Course VI. In the department of electricity opportunity is afforded for some shop-work, and for investigation of the problems connected with transformers and with alternating currents in general. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (twice or three times a week).*

Course VII. is elective for those who have taken Course VI.

Students taking Courses III.–VII. are advised to take, if they have not already taken, Course IV. in Mathematics.

[VIII. MATHEMATICAL THEORY OF ELECTRICITY. A course of lectures on the theory of electricity and magnetism. This course is based upon Emtage's Mathematical Theory of Electricity and Magnetism. The differential and integral calculus is used, and an acquaintance with differential equations and analytical geometry of three dimensions is also helpful to those taking the course. *Twice a week.*]

Course VIII. is elective for those who have taken the equivalent of the second part of Course III. or the first part of Course V. It is omitted the present year.

[IX. DYNAMO-ELECTRIC MACHINERY. A continuation of Course V. S. P. Thompson's Dynamo-Electric Machinery. *Twice a week.*]

Course IX. is elective for those who have taken Course V. It is omitted the present year.

X. ALTERNATING CURRENTS OF ELECTRICITY. A course of lectures on the theory of periodic currents, based on Fleming's Alternate Current Transformer. *Tu., at 10; Th., at 9.*

Course X. is elective for those who have taken either Course III. or Course V. in Physics, and Course IV. in Mathematics.

XI. MATHEMATICAL THEORY OF ELECTRICITY. An advanced course of lectures, involving the use of Maxwell's and Mascart and Joubert's Treatises for reference. *Wed., Fri., at 8.*

XII. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Th., at 10.*

GRADUATE INSTRUCTION. Course XI. is intended primarily for graduate students, and is taken this year by graduates only. Courses VII., X., and XII. are taken both by graduate and advanced undergraduate students.

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY; DR. LANGWORTHY.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science, especially as exemplified in inorganic chemistry. Each student performs a considerable number of experiments in the laboratory. *Mon., Fri., at 12 (from the beginning of the second term to the mid-year); Mon., Wed., Fri., at 12 (second half-year).* PROFESSOR ATWATER AND PROFESSOR BRADLEY.

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen who enter according to requirements A or B (see pages 28 and 29).

II. ADVANCED ELEMENTARY CHEMISTRY. A course of lectures on the general principles and some of the applications of chemistry. It is supplementary to Course I. *Tu., at 8.* PROFESSOR ATWATER.

Course II. is elective for those who have taken Course I., and is a required introduction to the higher electives.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise

occupies 2½ hours. *Mon., Wed., Fri., at 2 (twice or three times a week).* PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course I., and who take, or have taken, Course II.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies 2½ hours. *Mon., Wed., Fri., at 2 (twice or three times a week).* PROFESSOR ATWATER AND DR. LANGWORTHY.

Course IV. is elective for those who take, or have taken, Courses II. and III.

V. ORGANIC CHEMISTRY. Lectures on the principles of organic chemistry, as illustrated by the derivatives of methane and benzene. *Tu., Th., at 10.* PROFESSOR BRADLEY.

Course V. is elective for those who have taken Course III.

VI. PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Special attention is given to the chemistry of the animal body. *Tu., Th., at 11 (second half-year).* PROFESSOR ATWATER.

Course VI. is elective for those who take, or have taken, Course II. It is desirable that those who elect it should also elect Course V.

VII. ORGANIC CHEMISTRY. A practical course. The first term is devoted to practice in the preparation of compounds of carbon. During the second and third terms students are trained in methods of organic research. Each exercise occupies 2½ hours. *Mon., Wed., Fri., at 2 (twice or three times a week).* PROFESSOR BRADLEY.

Course VII. is elective for those who have taken Course III., but it is desirable that this course be taken in connection with, or after, Course V.

VIII. PHYSIOLOGICAL CHEMISTRY. A practical course in the preparation of organic compounds of interest in physiological chemistry. Each exercise occupies 2½ hours. *Twice or three times a week.* PROFESSOR ATWATER.

Course VIII. is elective for those who take, or have taken, Courses V. and VI., and may be elected for the second half-year alone.

IX. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Tu., Th., at 8.* PROFESSOR BRADLEY.

Course IX. is elective for those who have taken Course III.

X. CHEMICAL SEMINARY. A systematic course of instruction and reading in biological chemistry. *Mon., Wed., at 8.* PROFESSOR ATWATER.

Course X. is elective for undergraduates who take, or have taken, Courses V. and VI.

GRADUATE INSTRUCTION. Course X., although elective for undergraduates, is designed chiefly for graduates, and is taken the present year by graduates only.

Laboratory courses of research in physical, physiological, and organic chemistry may be arranged. Special work is being done the present year, in organic chemistry, on the derivatives of certain phenols.

GEOLOGY.

PROFESSOR RICE.

I. GEOLOGY. ELEMENTARY COURSE. Lectures and recitations, chiefly on dynamical and structural geology. *Wed., Fri., at 12.*

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II. GEOLOGY. ADVANCED COURSE. The first few weeks are occupied with a very brief course of lectures on rocks and their constituent minerals, intended especially to familiarize the students with the rocks and minerals likely to be encountered on the excursions. During the greater part of the year, informal and conversational recitations in Le Conte's Elements of Geology are held three times a week. Special topics for study, with bibliographical references, are from time to time assigned to each member of the class. Lectures on these topics are given by the members of the class, and are criticized and discussed. The first half-year is devoted to dynamical and structural geology, the second half-year to historical geology and paleontology. Either half of the course may be elected independently. The Saturdays (except in winter) are generally occupied by excursions. The observations made in an excursion are the subject of discussion at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Tu., Wed., Th., at 10 (counting as four times a week for those who elect the whole course or the first half).*

Course II. is elective for those who have taken Course I.; but it is very desirable that students taking this course should also have taken the courses in Physical Geography, Zoölogy, and Mineralogy.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, with Geikie's Elementary Lessons as a text-book. *Tu., Wed., Th., at 3 (first term).*

Course III. (in connection with II. Biology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

[IV. MINERALOGY. This course comprises three parts:—(1) A course of lectures on crystallography and optical mineralogy, with practical exercises in the study of models and crystals; (2) a course of laboratory work in determinative mineralogy; (3) a course of lectures on descriptive mineralogy. The first part of the course occupies the first half-year, the second part occupies the remainder of the second term, and the third part occupies the third term. The works of Dana and Brush, and Williams' Elements of Crystallography, are used for reference. *Three times a week.*]

Course IV. is elective for those who have taken I. Mathematics, I. Physics, and I. Chemistry. It is omitted the present year.

GRADUATE INSTRUCTION. Courses II. and IV., though intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field-work, or laboratory work in mineralogy and lithology.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Th., at 12.*

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II. GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the fern, the earthworm, and the frog, which are used as illustrating the general structure and physiology of

plants and animals. This course is designed as an introduction to the studies of Botany, Zoölogy, and Physiology. *Tu., Wed., Th., at 2 (first eight weeks of the second term).*

BOTANY. Practical work in the study of structural and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. Gray's Lessons is used, accompanied by lectures on subjects not treated in the text-book. The last two months are devoted to the analysis and description of flowers. *Tu., Wed., Th., at 2 (from March 1 to the end of the year).*

Course II. (in connection with III. Geology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

III. ZOÖLOGY. Lectures, recitations, and class dissections. Typical examples, illustrating the various groups of the animal kingdom, are described, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Mon., Tu., Wed., Th., at 11 (first half-year).*

Course III. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

IV. PRACTICAL BIOLOGY. The design of the courses in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mould, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (twice or three times a week).*

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY,—advanced course. The second year is devoted to experiments in physiology and to the study of histology, bacteriology, embryology, and mammalian anatomy. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (twice or three times a week).*

Course V. is elective for those who have taken Course IV.

[VI. EVOLUTION. A course of lectures and recitations giving an outline of the general theory of evolution. *Twice a week (second half-year).*]

Course VI. is elective for Juniors. It is omitted the present year.

VII. BACTERIOLOGY. A course of lectures giving the history of bacteriology from the seventeenth century to the present time. *Wed., at 8.*

Course VII. is elective for those who take, or have taken, Course IV. It will be omitted in 1896–97.

Candidates for special honors in biology are especially recommended to take at least one summer course in the marine laboratory at Cold Spring Harbor.

GRADUATE INSTRUCTION. Courses V. and VI., although elective for undergraduates, are designed also for such graduates as have not already specialized in biology.

Graduate courses of research are provided, consisting mainly of laboratory work, accompanied by collateral reading. Special work is being done this year upon the lactic bacteria of milk.

A Journal Club meets weekly to discuss current biological science.

TABULAR STATEMENT

—OF—

UNDERGRADUATE COURSES OF STUDY.

Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the Courses of Instruction in that department.

The Arabic numerals indicate the average number of exercises per week for the year in the respective studies.

In addition to those studies which are specified as required, each student must choose enough elective studies to make his whole number of lectures or recitations not less than fourteen, nor more than seventeen, per week. In making up this quota, studies which count for more than the number of exercises actually held are indicated by numbers added in a parenthesis.

Studies marked by a * are given the current year, but will be omitted next year; those marked by a † are omitted the current year, but will, in most cases, be given next year.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	4	I. Mathematics,	4
I. Greek,	4	I. English Language,	1 (2)

ELECTIVE.

I. German,	3	I. French,	3

SOPHOMORE YEAR.

REQUIRED.

II. English Language, I. Philosophy,	2½	I. Physics, I. Chemistry,	4½

ELECTIVE.

II. Latin,	1 or 2	II. Greek,	2
III. Latin,	1 or 2	III. Greek,	1
VII. Latin,	1	II. German,	3
†IX. Latin,	2	II. French,	2
*X. Latin,	2	III. French,	1

Italian,	2	IV. Mathematics,	2
†IV. English Language,	2	II. Physics,	2
II. Mathematics,	2	III. Geology, }	3
III. Mathematics,	2	II. Biology, }	

Each student must include in his electives one of the following combinations:—1. Not less than one course of two hours per week in each of the three departments of Latin, Greek, and Mathematics. 2. Not less than five hours per week of electives in Mathematics and Physics, both Latin and Greek being dropped. 3. Not less than five hours per week in Latin and Greek, and not less than one course of two hours per week in each of these departments. [Courses IX. and X. Latin do not satisfy requirements 1 and 3].

JUNIOR YEAR.

REQUIRED.

I. Economics,	1½	II. Philosophy,	1½

ELECTIVE.

†IV. Latin,	1 or 2	V. Philosophy,	1
*V. Latin,	1 or 2	*Science and Religion,	1
*VI. Latin,	1 or 2	V. Mathematics,	3
†VIII. Latin,	1	VI. Mathematics,	2
†IV. Greek,	3	VII. Mathematics,	2
*V. Greek,	3	VIII. Mathematics,	2
VI. Greek,	2	IX. Mathematics,	2
VIII. Greek,	1 (2)	Astronomy,	2
†III. German,	2	*III. Physics,	3
*IV. German,	2 (3)	†IV. Physics,	3
V. German;	1	†V. Physics,	2
IV. French,	2 (3)	VI. Physics,	2 or 3
I. English Literature,	3	II. Chemistry,	1
*V. English Language,	2	III. Chemistry,	2 or 3
*VI. English Language,	1	IV. Chemistry,	2 or 3
Elocution,	2	VI. Chemistry,	1
†I. History,	2	I. Geology,	2
II. History,	2	†IV. Geology,	3
III. History,	1	I. Biology,	2
IV. History,	2	III. Biology,	2
V. History,	1	IV. Biology,	2 or 3
III. Philosophy,	1	†VI. Biology,	1
IV. Philosophy,	1	*VII. Biology,	1

SENIOR YEAR.

REQUIRED.

Ethics,	1	Evidences,	1

ELECTIVE.

XI. Latin,	1	VII. Philosophy,	1
XII. Latin,	2	†VIII. Philosophy,	1
XIII. Latin,	2	IX. Philosophy,	1 (1½)
XIV. Latin,	2	X. Philosophy,	1 (1½)
VII. Greek,	3	Theism,	½ (1)
IX. Greek,	1	X. Mathematics,	2
†VI. German,	1	XII. Mathematics,	2 (3)
V. French,	1 (2)	VII. Physics,	2 or 3
VI. French,	1 (2)	†VIII. Physics,	2
*II. English Literature,	2 (3)	†IX. Physics,	2
†III. English Literature,	2 (3)	*X. Physics,	2
IV. English Literature,	1	V. Chemistry,	2
II. Economics,	2	VII. Chemistry,	2 or 3
†III. Economics,	2	VIII. Chemistry,	1, 1½, 2 or 3
IV. Economics,	2	IX. Chemistry,	2
V. Economics,	2	X. Chemistry,	2
VI. Economics,	1 (2)	II. Geology,	1½ (2) or 3 (4)
VI. Philosophy,	1	V. Biology,	2 or 3

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin,	4	III. Geology, }	3
I. Mathematics,	4	II. Biology, }	
I. English Language,	1 (2)		

ELECTIVE.

I. German,	3	I. French,	3
II. German,	3	II. French,	2

SOPHOMORE YEAR.

REQUIRED.

II. English Language, I. Philosophy,	2½	I. Physics, I. Chemistry,	4½

ELECTIVE.

II. Latin,	1 or 2	III. French,	1
III. Latin,	1 or 2	Italian,	2
VII. Latin,	1	†IV. English Language,	2
†IX. Latin,	2	II. Mathematics,	2
*X. Latin,	2	III. Mathematics,	2
†III. German,	2	IV. Mathematics,	2
*IV. German,	2 (3)	II. Physics,	2
V. German,	1	III. Biology,	2

JUNIOR YEAR.

REQUIRED.

I. Economics,	1½	II. Philosophy,	1½

ELECTIVE.

†IV. Latin,	1 or 2	VI. Mathematics,	2
*V. Latin,	1 or 2	VII. Mathematics,	2
*VI. Latin,	1 or 2	VIII. Mathematics,	2
†VIII. Latin,	1	IX. Mathematics,	2
†VI. German,	1	Astronomy,	2
IV. French,	2 (3)	*III. Physics,	3
I. English Literature,	3	†IV. Physics,	3
*V. English Language,	2	†V. Physics,	2
*VI. English Language,	1	VI. Physics,	2 or 3
Elocution,	2	II. Chemistry,	1
†I. History,	2	III. Chemistry,	2 or 3
II. History,	2	IV. Chemistry,	2 or 3
III. History,	1	VI. Chemistry,	1
IV. History,	2	I. Geology,	2
V. History,	1	†IV. Geology,	3
III. Philosophy,	1	I. Biology,	2
IV. Philosophy,	1	IV. Biology,	2 or 3
V. Philosophy,	1	†VI. Biology,	1
*Science and Religion,	1	*VII. Biology,	1
V. Mathematics,	3		

SENIOR YEAR.

REQUIRED.

Ethics,	1	Evidences,	1

ELECTIVE.

XI. Latin,	1	†VIII. Philosophy,	1
XII. Latin,	2	IX. Philosophy,	1 (1½)
XIII. Latin,	2	X. Philosophy,	1 (1½)
XIV. Latin,	2	Theism,	½ (1)
VII. German,	1	X. Mathematics,	2
V. French,	1 (2)	XII. Mathematics,	2 (3)
VI. French,	1 (2)	VII. Physics,	2 or 3
*II. English Literature,	2 (3)	†VIII. Physics,	2
†III. English Literature,	2 (3)	†IX. Physics,	2
IV. English Literature,	1	*X. Physics,	2
II. Economics,	2	V. Chemistry,	2
†III. Economics,	2	VII. Chemistry,	2 or 3
IV. Economics,	2	VIII. Chemistry,	1, 1½, 2 or 3
*V. Economics,	2	IX. Chemistry,	2
VI. Economics,	1 (2)	X. Chemistry,	2
VI. Philosophy,	1	II. Geology,	1½ (2) or 3 (4)
VII. Philosophy,	1	V. Biology,	2 or 3

SCIENTIFIC COURSE.

The following course is laid down for those who enter college according to the requirements marked A, page 28. The modifications of this course for those who enter according to requirements B or C are indicated below.

FRESHMAN YEAR.

REQUIRED.

I. English Language,	1 (2)	I. German,	3
I. Physics, / I. Chemistry,	4½	II. French,	2
		or	
III. Geology, / II. Biology,	3	II. German,	3
		I. French,	3

ELECTIVE.

II. Mathematics,	2	IV. Mathematics,	2
III. Mathematics,	2	II. Physics,	2

SOPHOMORE YEAR.

REQUIRED.

II. German,	3	Astronomy,	2
or		I. Biology,	2
II. French,	2	I. Geology,	2
II. English Language, I. Philosophy,	2½		

ELECTIVE.

†III. German,	2	†V. Physics,	2
*IV. German,	2	VI. Physics,	2 or 3
V. German,	1	II. Chemistry,	1
III. French,	1	III. Chemistry,	2 or 3
Italian,	2	IV. Chemistry,	2 or 3
†IV. English Language,	2	VI. Chemistry,	1
V. Mathematics,	3	†IV. Geology,	3
*III. Physics,	3	III. Biology,	2
†IV. Physics,	3		

JUNIOR YEAR.

REQUIRED.

I. Economics,	1½	II. Philosophy,	1½

ELECTIVE.

†VI. German,	1	VIII. Mathematics,	2
IV. French,	2 (3)	IX. Mathematics,	2
I. English Literature,	3	XII. Mathematics,	2 (3)
*V. English Language,	2	VII. Physics,	2 or 3
*VI. English Language,	1	†VIII. Physics,	2
Elocution,	2	†IX. Physics,	2
†I. History,	2	*X. Physics,	2
II. History,	2	V. Chemistry,	2
III. History,	1	VII. Chemistry,	2 or 3
IV. History,	2	VIII. Chemistry,	1, 1½, 2 or 3
V. History,	1	IX. Chemistry,	2
III. Philosophy,	1	X. Chemistry,	2
IV. Philosophy,	1	II. Geology,	1½ (2) or 3 (4)
V. Philosophy,	1	IV. Biology,	2 or 3
*Science and Religion,	1	†VI. Biology,	1
VI. Mathematics,	2	*VII. Biology,	1
VII. Mathematics,	2		

SENIOR YEAR.

REQUIRED.

Ethics,	1	Evidences,	1

ELECTIVE.

V. French,	1 (2)	VI. Philosophy,	1
VI. French,	1 (2)	VII. Philosophy,	1
*II. English Literature,	2 (3)	†VIII. Philosophy,	1
†III. English Literature,	2 (3)	IX. Philosophy,	1 (1½)
IV. English Literature,	1	X. Philosophy,	1 (1½)
II. Economics,	2	Theism,	½ (1)
†III. Economics,	2	X. Mathematics,	2
IV. Economics,	2	XI. Physics,	2
V. Economics,	2	V. Biology,	2 or 3
VI. Economics,	1 (2)		

The course for those who enter college according to the set of requirements marked B, on page 29, is the same as the above, with the following modifications:—

I. Mathematics, and either II. French or II. German, are required in Freshman year. II., III., and IV. Mathematics are elective in Sophomore year.

Those who enter according to the requirements marked C, page 30, are required to take I. Mathematics in Freshman year, and, for such of the courses I. Physics, I. Chemistry, III. Geology, and II. Biology as they pass on at entrance, they substitute enough elective work to fill out the required quota of exercises per week. Their course in other respects, both as to required and elective studies, is the same as for those who enter according to requirements A, except that their elective studies in Mathematics follow the order just indicated for those who enter according to requirements B.

In addition to the courses indicated in the foregoing tabular statement, exercises in English composition and public speaking are required of all classes, as specified on pages 41, 42, and 44.

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on pages 68 and 69. In that table the sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the above statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.

DAILY PROGRAMME.—1895-96.

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
8.	II. Greek, 1. VII. Greek. I. German. I. French. V. Economics. X. Chemistry.	VI. Greek. II. French. II. Chemistry. IX. Chemistry.	VII. Greek. I. German. I. French. III. Philosophy (2d half-year). XI. Physics. X. Chemistry. VII. Biology.	II. Greek, 1. VI. Greek. II. French. V. Economics. IX. Chemistry.	VII. Greek. I. German. I. French. III. Philosophy (2d half-year). XI. Physics.
9.	X. Latin. I. Greek, 1. IV. History. I. Mathematics, 1. IX. Mathematics. Astronomy.	XII. Latin. I. Greek, 1. II. English Language (1st half-year). I. Economics (2d half-year). I. Philosophy, 1 (2d half-year). II. Philosophy (1st half-year). Ethics (2d term). Evidences (3d term). I. Mathematics, 1. X. Mathematics.	I. Greek, 1. II. English Language (1st half-year). I. Economics (2d half-year). II. Philosophy (1st half-year) Ethics (2d term). Evidences (3d term).	I. Greek, 1. V. German. IV. History. X. Philosophy (2d half-year). I. Mathematics, 1. Astronomy. X. Physics.	XII. Latin. II. English Language (1st half-year). I. Economics (2d half-year). I. Philosophy, 1 (2d half-year). II. Philosophy (1st half-year). Ethics (2d term). Evidences (3d term). I. Mathematics, 1. X. Mathematics.
10.	V. Greek. II. German. II. English Literature, 1 (1st and 2d terms). II. Economics. I. Mathematics, 2. III. Physics.	I. Latin, 1. II. Greek, 2. VIII. Greek. IV. French. IV. Economics. I. Mathematics, 2. X. Physics. V. Chemistry. II. Geology.	I. Latin, 1. V. Greek. II. German. II. English Literature, 1 (1st and 2d terms). II. Economics. VIII. Mathematics. III. Physics. II. Geology.	I. Latin, 1. X. Latin. III. Greek. IV. French. IV. Economics. I. Mathematics, 2. VI. Mathematics. XII. Physics. V. Chemistry. II. Geology. Declamation (Juniors, 1).* Declamation (Freshmen, 1).*	I. Latin, 1. II. Greek, 2. V. Greek. II. German. II. English Literature, 1 (1st term). I. Mathematics, 2. VIII. Mathematics. III. Physics.
11.	I. Greek, 2. III. French. I. English Literature (1st and 2d terms). IX. Philosophy (1st half-year). X. Philosophy (2d half-year). IV. Mathematics. III. Biology (1st half-year).	II. Latin. I. Greek, 2. IV. English Literature (1st and 2d terms). VI. Economics. IV. Philosophy (1st half-year). V. Philosophy (2d half-year). II. Mathematics. VI. Chemistry (2d half-year). III. Biology (1st half-year).	III. Latin. I. Greek, 2. I. English Literature (1st and 2d terms). VI. Philosophy (1st half-year). VII. Philosophy (2d half-year). IV. Mathematics. III. Biology (1st half-year). Declamation (Sophomores, 1, 2).*	II. Latin. I. Greek, 2. IV. Philosophy (1st half-year). V. Philosophy (2d half-year). IX. Philosophy (1st half-year). II. Mathematics. VI. Chemistry (2d half-year). III. Biology (1st half-year). Declamation (Juniors, 2).* Declamation (Freshmen, 2).*	III. Latin. I. English Literature (1st and 2d terms). VI. Philosophy (1st half-year). VII. Philosophy (2d half-year). IV. Mathematics.

DAILY PROGRAMME.—(Continued.)

Hour.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
12.	II. English Literature, 2 (1st and 2d terms). I. Mathematics, 3. V. Mathematics. Practical Astronomy. I. Physics (1st term). I. Chemistry (2d and 3d terms). I. Biology.	I. Latin, 2. I. English Literature (1st and 2d terms). I. Mathematics, 3. I. Physics.	I. Latin, 2. V. French. II. English Literature, 2 (1st and 2d terms). II. History. VI. Mathematics. VII. Mathematics. I. Chemistry (2d half-year). I. Geology. Declamation (Freshmen, 3).*	I. Latin, 2. I. Mathematics, 3. V. Mathematics. Practical Astronomy. I. Physics. I. Biology. Declamation (Juniors, 3, 4).*	I. Latin, 2. II. English Literature, 2 (1st term). II. History. I. Mathematics, 3. VII. Mathematics. I. Physics (1st term). I. Chemistry (2d and 3d terms). I. Geology.
2.	III., IV., VII., VIII. Chemistry.	II., VI., VII. Physics. II. Biology (2d and 3d terms). IV., V. Biology. Declamation (Sophomores, 3).* Declamation (Freshmen, 4).*	II., VI., VII. Physics. III., IV., VII., VIII. Chemistry. II. Biology (2d and 3d terms). IV., V. Biology. Declamation (Juniors, 5).* Declamation (Sophomores, 4).*	II., VI., VII. Physics. II. Biology (2d and 3d terms). IV., V. Biology. Declamation (Juniors, 6, 7, 8).*	III., IV., VII., VIII. Chemistry.
3.	VII. Latin. I. A. English Language. III. Mathematics. III., IV., VII., VIII. Chemistry. Forensics.*	VI. Latin. IV. German. V. English Language. II. Elocution. I. Philosophy, 2 (2d half-year). Science and Religion (2d half-year). V. Mathematics. II., VI., VII. Physics. III. Geology (1st term). II. Biology (2d and 3d terms). IV., V. Biology.	V. Latin. Italian. V. English Language. III. History (1st half-year). V. History (2d half-year). Theism (2d half-year). II., VI., VII. Physics. III., IV., VII., VIII. Chemistry. III. Geology (1st term). II. Biology (2d and 3d terms). IV., V. Biology.	VI. Latin. IV. German. VI. English Language. II. Elocution. II., VI., VII. Physics. III. Geology (1st term). II. Biology (2d and 3d terms). IV., V. Biology.	V. Latin. Italian. I. B. English Language. III. History (1st half-year). V. History (2d half-year). I. Philosophy, 2 (2d half-year). Science and Religion (2d half-year). IX. Mathematics. III., IV., VII., VIII. Chemistry.
4.	IX. Greek. III., IV., VII., VIII. Chemistry.	II., VI., VII. Physics. IV., V. Biology.	V. English Literature (1st and 2d terms). II., VI., VII. Physics. III., IV., VII., VIII. Chemistry. IV., V. Biology.	III. Mathematics. II., VI., VII. Physics. IV., V. Biology.	VI. English Literature (1st and 2d terms). III., IV., VII., VIII. Chemistry.

GENERAL REGULATIONS.*

QUOTA OF STUDIES.

The quota of regular studies for each student of the three upper classes is such as to require, for a minimum, fourteen hours, and, for a maximum, seventeen hours of class-room work each week, exclusive of rhetorical exercises. The quota for Freshmen is, for a minimum, fifteen hours, and, for a maximum, seventeen hours of class-room work each week, exclusive of declamations. No student is allowed to take less than fourteen hours, nor more than seventeen hours of work each week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5 denoting failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of each term, and during a specified period in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence.

To students who, for any reason, have not passed at any regular examination, opportunities for special examinations are given at

* Copies of the detailed Regulations may be obtained from the Secretary.

specified times. If a student shall fail to pass a final examination in any study before that study is taken up by the next succeeding class, he will, unless specially excused therefrom, be required to recite with that class. A student who, at the close of the special examinations held at the beginning of the year, is deficient by an amount equivalent to six or more hours of work per week for a year, is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the beginning of the next college year, is then excluded from all recitations until the conditions are made up.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than three hours per week for a year, and no member of the Sophomore class who is deficient more than four hours per week for a year, is allowed to take part in any athletic contest with another team, except by special permission; and any student becoming notably deficient in his work during the year may be debarred from taking part in such a contest.

Members of the glee and mandolin clubs who are deficient as specified in the preceding paragraph, are not allowed to take part in concerts given by those clubs.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in the College Chapel every morning.

Every student is required to attend the Sunday morning service in some one of the churches in the city.

A limited number of absences from chapel and church are allowed, without the presentation of any excuse.

Voluntary religious services under the direction of the several college classes and of the Young Men's Christian Association are held weekly.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	$75 00
Rent and care of half-room, unfurnished, from $22.00 to $40.00; average,	30 00
Steam heat; average for half-room,	9 00
General repairs and incidentals (lighting, heating, and caring for public rooms, gymnasium fee, etc.),	27 00
Use of Library and Reading Rooms,	6 00
Total,	$147 00

Students in practical chemistry are charged for the use of apparatus, for chemicals, and for incidentals. The charge averages about nine dollars a term for quantitative, and about six dollars a term for qualitative, analysis.

A fee of five dollars a term is charged to each student in practical physics, and also to each student in practical biology.

Ladies residing in the Ladies' Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof satisfactorily secured, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof secured.

A student who is absent from college with permission, on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms will be put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If, however, any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from $3.75 to $5.00 a week. A large majority of the students board in clubs, at prices ranging from $3.00 to $3.75 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. It may be remarked, however, that they are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

MATERIAL EQUIPMENT.

LIBRARY AND READING ROOMS.

THE LIBRARY in Rich Hall contains about forty-five thousand volumes. The library is open every week-day of term time, except Saturdays, from 8 A. M. to 1 P. M., and from 2:30 to 4:30 P. M.; on Saturdays, from 8 A. M. to 12 M., and from 1 P. M. to 4 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the librarian.

A reading-room, provided with the principal newspapers, daily and weekly, is on the first floor of North College. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is used for miscellaneous laboratory work, one for physiological work, one for

coarse dissection, and one for bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, being supplied with microscopes, micrometers, water tanks, warm chambers, dissecting apparatus, myographs, bacteriological apparatus, etc., together with abundance of material for anatomical and histological study. The general laboratory room is provided with a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of most of the experiments usually undertaken in undergraduate courses; while, in the department of electricity, recent additions of apparatus and machinery afford facilities for instruction in the use of all important electrical instruments and machines. The laboratory work in all departments except electricity is carried on in the rooms on the ground floor of Observatory Hall. The building originally used as a chemical laboratory has been transformed into an electrical laboratory, while the dynamos and associated instruments, and also a well-equipped workshop, are located at a convenient distance from the electrical laboratory in the boiler house.

DYNAMO ROOM AND WORKSHOP. In the dynamo room there are a 25 horse-power engine, several dynamos and motors, transformers, and testing instruments. The shop, which is supplied with a complete outfit of machines and tools, is in charge of a skilled mechanician who constructs apparatus for lecture and laboratory use.

THE CHEMICAL LABORATORY occupies five rooms in Judd Hall, with store-rooms in the basement. A large working-room on the first floor, with a balance-room adjoining, furnishes accommodations for about thirty students in analytical chemistry, and smaller rooms afford conveniences for the work of instructors, assistants, and graduate students. A large room in the basement has been furnished and set apart for the laboratory work of the required course in elementary chemistry.

The rooms of the physical laboratory and some of the rooms of the chemical and biological laboratories are lighted by electricity.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. They are arranged in a series of cases in a room adjoining the mathematical lecture room in Observatory Hall.

GYMNASIUM.

The gymnasium is located on the north side of the rear campus and runs parallel to Wyllys Avenue, with the front toward the campus. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a baseball cage, baths, lockers, and toilet rooms.

On the first floor is the main hall of the gymnasium, which affords ample room for every variety of gymnastic exercise, and is fully equipped with the best modern apparatus. Above the main floor there is a running track, suspended from the roof. The director's office and rooms for baths and lockers are also on the first floor. On the second floor is a committee room for the use of the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the present structure is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to educational purposes, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of

New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the posession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in lithology, physical geology, and paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. The collections in paleontology have been very largely increased within the last few years, by the work of the present curator in western Maryland, in the vicinity of Canon City, Col., at Valcour Island, Lake Champlain, and in the vicinity of Middletown. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, has been received this year in exchange from the Museum of Munich.

The Ethnographical Department includes a large collection of Indian relics; a valuable collection of pottery from the guano beds of Peru, presented by the late Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; and a remarkably full series of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D. In connection with the ethnographical department of the museum should be mentioned a collection of coins numbering over 3,000, exclusive of duplicates. Included in this number is a collection of 1,750 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of a small selection placed on exhibition in the museum) are

kept in a case in the library, where they can be seen by students and others on special application. Small collections illustrative of classical archæology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	200
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	1,500
nests and eggs,	600
Reptiles,	350
Amphibians,	150
Fishes,	2,100
Insects—pinned and alcoholic,	3,800
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Cœlentera,	1,700
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in Herbarium,	10,700
Specimens of wood,	300
Miscellaneous botanical specimens,	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	12,000
Fossils—Paleozoic,	4,600
Mesozoic,	2,300
Cenozoic,	2,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	2,700
Coins,	5,000

The museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A limited number of scholarships exempting the holders from the charge for tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is to be given annually to that member of the Senior or Junior class who shall be named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

This scholarship has been awarded for the year 1895–96 to William Harry Burgwin.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of $5,000 will be awarded to that member of the Senior class who shall pass the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

This scholarship was awarded, on the basis of work done in the year 1894–95, to Clifford Pease Clark, B. A., this year a student at Berlin, Germany.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income, amounting to fifty dollars, is available, at the discretion of the President, for the use of a deserving student who needs pecuniary assistance.

COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, will be awarded for the best essay on some specified subject in the department of history.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1896 is, The Working of the Eight-hour Day. The essays must be left with the head of the department on or before the third Monday in May (May 18).

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., will be awarded for excellence in natural science. It will be given in 1896 upon a special examination in the course in chemistry marked I. in the present catalogue. The subject of the examination in 1897 will be geology; in 1898, biology.

The G. Brown Goode Prize, the gift of G. Brown Goode, LL. D., will be awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, or the G. Brown Goode Prize, may compete for it again.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., will be awarded for excellence in philosophy. It will be given in 1896 upon an examination in the courses in philosophy marked VI. and VII. in the present catalogue, together with an essay on some selected topic in modern philosophy.

A prize will be awarded for excellence in Greek archæology. It will be given in 1896 upon a special examination in the course in Greek marked VIII. in the present catalogue.

The Camp Prize, the gift of Samuel T. Camp, Esq., will be awarded for excellence in English literature. It will be given in 1896 upon a special examination in the course in English literature marked I. in the present catalogue.

The Johnston Prize, the gift of Rev. David G. Downey, M. A., in memory of Professor John Johnston, will be awarded for excellence in electricity. It will be given in 1896 upon a special examination in the second half of the course in physics marked III. in the present catalogue.

The Spinney Prize, the gift of Mrs. Joseph Spinney, will be awarded for excellence in Greek. It will be given in 1896 upon a special examination based upon the second third of the course in Greek marked II. in the present catalogue.

The Phi Beta Kappa Prize will be awarded for excellence in Latin. It will be given in 1896 upon a special examination based upon the course in Latin marked VI. in the present catalogue.

The Rice Prize, the gift of Rev. William Rice, D. D., will be awarded for excellence in mathematics. It will be given in 1896 upon a special examination based upon the course in mathematics marked IV. in the present catalogue.

Students who compete for either the Weeks, the Greek archæology, the Camp, the Johnston, the Spinney, the Phi Beta Kappa, or the Rice Prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., will be awarded to that member of the Senior class who shall excel in moral philosophy.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—in memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—will be awarded to that member of the Junior class who shall excel in psychology.

The Sherman Prize, the gift of Rev. David Sherman, D. D., will be awarded this year to that member of the Freshman class who shall excel in Greek. It will be given upon a special examination based upon the first third of the course in Greek marked I. in the present catalogue. The subject of the examination in 1897 will be mathematics; in 1898, Latin.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., will be awarded to that member of the Freshman class who shall be found, upon a special examination, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, the gift of Mrs. Isaac Rich, will be awarded to that member of the Senior class whose oration at Commencement shall be deemed best in composition and delivery. Each oration shall contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 6).

The Olin Prize, the gift of Mrs. Julia M. Olin, will be awarded to that member of the Senior class who shall excel in English composition. The subject for the essay of 1896 is, The Moral Limitations of Art. The subject for the essay of 1897 is, Matthew Arnold. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 13).

Two prizes will be awarded, as a first and second prize respectively, to the two members of the Junior class who shall present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations will be considered. The orations must be left with the Professor of the English Language on or before the first Saturday in the third term (April 11).

A prize will be awarded to that member of the Junior class who shall excel in debate.

The Parker Prize, the gift of Rev. John Parker, for excellence in elocution, will be awarded to the best speaker in the Junior and Sophomore classes.

The Garrison Prize, the gift of Rev. S. Olin Garrison, B. D., will be awarded, in the same classes, as a second prize for excellence in elocution; but, in the competition for it, selections of a dramatic character, and from poetry, will be excluded.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., will be awarded to that member of the Freshman class who shall excel in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., will be awarded to that student who shall write the best English poem. The poem must be left with the Professor of English Literature before the Senior examination.

The several Committees of Award will withhold any of the prizes, if, in their judgment, none of the exercises presented in competition for them possess the requisite merit.

AWARD OF PRIZES, 1894-95.

The Harrington Prize, to WILLIAM BARRETT CASS.

Committee of Award:—Walter Augustus Wycoff, B. A., Princeton College.

The Joseph D. Weeks Prize, to MERLE BOWMAN WALTZ.

The Peirce Prize, to JAMES PENDLETON ERSKINE.

Committee of Award:—Frank Kirkwood Hallock, M. D., Cromwell.

The G. Brown Goode Prize, to ABBY MAY THOMPSON.

The Weeks Prize, to GEORGE LEAVITT TIRRELL.

Committee of Award:—Caspar Wistar Hodge, Ph. D., Princeton College.

The Prize for Greek Archæology, to HIRAM EMERY MILLER and EDWARD LEE THORNDIKE.

The Camp Prize, to CORNELIUS ROACH BERRIEN.

The Johnston Prize, to WILLIAM SEAVER WOODS.

Committee of Award:—Professor Arthur Lalanne Kimball, Ph. D., Amherst College.

The Spinney Prize, to FREDERICK WILLIAM ROE.

The Phi Beta Kappa Prize, to EVAN LENN TAMBLYN.

The Rice Prize, to WILLIAM EUGENE SCHIMPFF.

The Wise Prize, to EDWARD LEE THORNDIKE.

The Walkley Prize, to EDITH ROCHELLE GRAVES.

Committee of Award:—Professor John Grier Hibben, Ph. D., Princeton College.

The Sherman Prize, to ALLING PRUDDEN BEARDSLEY.

The Rich Prize, to CHARLES OTIS JUDKINS.

Committee of Award:—Rev. William Valentine Kelley, D. D., New York, N. Y.; Rev. Charles Wesley Gallagher, D. D., Kent's Hill, Me.; Hon. Arthur Eugene Sutherland, M. A., Rochester, N. Y.

The Olin Prize, to EDWARD LEE THORNDIKE.

Committee of Award:—Professor George Rice Carpenter, B. A., Columbia College.

The First Junior Exhibition Prize, to GEORGE MILES MOODY.

Committee of Award:—Rev. Azel Washburn Hazen, D. D., Middletown; Rev. John Townsend, M. A., Middletown; William Walter Wilcox, Jr., B. A., Middletown.

The Second Junior Exhibition Prize, to EDMUND DAVID SEARLS.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Prize for Debate, to JASON FRANKLIN CHASE.

Committee of Award:—Professors Nicolson and Fisher, and Mr. Shaw.

The Parker Prize, to GEORGE MILES MOODY.

Committee of Award:—Rev. Frank Channing Haddock, Middletown; Rev. Frederick William Greene, B. A., Middletown; Professor Dennis.

The Garrison Prize, to WILLIAM BRAMAN TOWER.

Committee of Award:—Same as for the Parker Prize.

The Hibbard Prize, to HAROLD DENMAN MEEKER.

Committee of Award:—Same as for the Parker Prize.

The Ayres Prize for the present year has been awarded to WILLARD WARREN WILSEY.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to the grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected according to the grade in composition and declamation subsequent to the Sophomore year. The number of speakers at each of these public exercises is limited to ten. The speakers last year were:—

AT THE JUNIOR EXHIBITION.—Cornelius Roach Berrien, William Harry Burgwin, James Henry Fuller, Irving Edward Manchester, George Miles Moody, Albert Eugene Osborne, Joseph Adams Puffer, Edmund David Searls, Vernon Benjamin Swett.

AT COMMENCEMENT.—Lula Giralda Adams, Arthur Beebe Darling, Andrew Buchanan White Gillies, Henry Ingraham Harriman, Charles Otis Judkins, Verona J. Smith, Edward Lee Thorndike, William Seaver Woods.

*HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

* A new system for the award of General, Preliminary, and Special Honors will go into effect in the year 1896–97. The detailed regulations will be published later in the year.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or of the Junior year, and no student shall receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given as early as the first Monday of the third term of the year in which the candidate proposes to present himself for the special examination. The case of each candidate shall be decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must pass, and maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and I., either II. or III., and VII. Latin.

2. He must also pass with distinction a special examination designed to test *(a)* his ability to translate Greek and Latin into English at sight, and *(b)* his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history. This special examination shall be held near the end of the academic year.

Mathematics.—1. The candidate must pass, and maintain an average standing of second grade, in the required course in mathematics, and in such elective courses, amounting to not less than five hours a week, as may be approved by the head of the department. Courses II. and IV. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

If a candidate for preliminary honors shall fail to attain an average standing of second grade in the studies prescribed in the preceding regulations, he may, nevertheless, receive the honor, provided his work during the Sophomore and Junior years, in the department in which he proposes to take a preliminary honor, shall show, in the opinion of the instructors concerned, a sufficient degree of improvement.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Special honors are also awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which these special honors are awarded are as follows:—

(1) The candidate must apply to the officer of the department in which he proposes to take honors, not later than the first Monday of the third term in the Junior year.

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must maintain an average standing of second grade after the beginning of his Sophomore year, provided, however, that, if he maintain a standing of first grade in such of these studies as he pursues in his Junior and Senior years, the standing of the Sophomore year may be ignored.

(3) No student shall receive special honors who shall fail to pass in any study of the last two years of the course.

(4) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading or investigation as shall be prescribed by the officer in charge of the department. The evidence of his proficiency in this collateral course shall be given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the officer of the department shall prescribe. The case of each candidate shall be decided by the Faculty.

(5) In addition to other requirements, every candidate for special honors shall be required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination shall be oral, and shall be conducted in the presence of a committee of the Faculty.

(6) No examination for special honors shall be given, and no thesis or other work in preparation for special honors shall be received, after the second Saturday preceding Commencement.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. Courses I., VII.–X., and XIV. in Latin; and so many of the remaining courses in Latin as will amount in the aggregate to not less than eight hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.–VII. in Greek.

2. Course I. and either Course II. or Course III. in Latin.

German.—1. Courses I.–VI. in German.

2. Courses I. and II. in French.

3. The course in Anglo-Saxon.

Romance Languages.—1. Courses I.-IV. in French, and the course in Italian.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Anglo-Saxon, Early English, and Courses I., IV., and either II. or III. in English Literature.

(b.) Anglo-Saxon, Early English, Course I. in English Literature, and Courses I. and II. in German.

(c.) Courses I., IV., and either II. or III. in English Literature, Anglo-Saxon, and Course II. in History.

(d.) Courses I., IV., and either II. or III. in English Literature, Course II. in History, and any three of the courses in German, French or Italian.

History.—1. All the courses in History.

2. The required course, and one elective course, in Economics and Social Science.

Economics and Social Science.—1. Any five of the courses in Economics and Social Science.

2. Courses I., II., and IV. in History.

Philosophy.—1. Courses I., II., V., VI., VII., IX., and X. in Philosophy.

2. Two of the following courses:—III., IV., VIII. Philosophy.

3. The course in Ethics.

4. The course in Theism, or Course I. in Biology.

Mathematics.—1. The required course in Mathematics.

2. Elective courses in Mathematics and Astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in Physics.

[Prospective candidates for special honors in Mathematics at graduation are advised to take Course IV. in Mathematics in the Sophomore year.]

Physics.—1. Course I. in Physics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises a week).

3. Not less than three of the following courses:—III., IV., V., VIII., IX., X. Physics, and III. Mathematics.

4. Course I. in Chemistry.

5. Either Course III. in Chemistry or Course IV. in Mathematics.

Chemistry.—1. Courses I.–V. and IX. in Chemistry (three exercises a week being required in Course III.).

2. Course I. in Physics, and one year of Practical Physics; or Course VI. in Chemistry, and Courses I. and IV. in Biology.

Geology.—1. Courses I.–IV. in Geology.

2. The course in Astronomy.

3. Courses II. and III. in Biology.

4. Not less than two of the following courses:—IV. and V. Biology, III. and IV. Chemistry, and IV. Physics.

Biology.—1. Courses I.–V. in Biology.

2. Courses I. and III. in Geology.

3. Course III. in Chemistry.

[Candidates for special honors in Biology at graduation are recommended to take at least one summer course in the Marine Laboratory at Cold Spring Harbor.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection must be subject to the approval of the head of the department in which he proposes to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

The names of those students who take preliminary honors are announced on the Monday preceding Commencement.

The honors at graduation, both general and special, are stated in the diploma; and the names of students who take such honors are printed on the Commencement scheme.

AWARD OF HONORS, 1894-95.

PRELIMINARY HONORS.

Classics.—Louis Arthur Norris.

Mathematics.—Minnie Rose Snow.

HONORS IN GENERAL SCHOLARSHIP.

First Grade.—Lula Giralda Adams, Edward Lee Thorndike, Merle Bowman Waltz.

Second Grade.—James Lincoln Bahret, Clifford Pease Clark, Edward Francis Coffin, Wilmer Evans Coffman, Mary Eva Cramer, James Pendleton Erskine, Norman Everett Gilbert, Andrew Buchanan White Gillies, Thomas Jose Hambley, Henry Ingraham Harriman, Charles Otis Judkins, Hiram Emery Miller, Samuel Bowman Opdyke, Abby May Thompson, Maud Eloise Wells, William Seaver Woods.

HONORS IN SPECIAL DEPARTMENTS.

Greek.—Clifford Pease Clark. Readings in Pausanias, Strabo, and Pliny. Thesis: "The Parthenon of Peisistratus and Contemporary Art."

Hiram Emery Miller. Readings in Xenophon, Plato, and Aristophanes. Thesis: "Socrates—his three Greek Biographers."

Romance Languages.—Lula Giralda Adams. Special studies in Rousseau, Voltaire, and Diderot. Thesis: "Rousseau's Influence on English and French Literature."

English.—Caroline Chalker Clark. Studies in Chaucer. Thesis: "Chaucer's Canon's Yeoman's Tale."

Philosophy.—Lula Giralda Adams. Studies in the French Philosophy of the Eighteenth Century. Thesis: "The Philosophical Development of Diderot."

James Lincoln Bahret. Studies in the Philosophy of Ethics. Thesis: "Herbert Spencer's Data of Ethics."

Mathematics.—Norman Everett Gilbert, Maud Eloise Wells. Special Problems in Theoretical Mechanics and Analytical Geometry of Three Dimensions.

Chemistry.—Thomas Jose Hambley. Thesis: "Para-tertiary-amyl-phenol and its Derivatives."

Frederick Kniffen. Thesis: "Para-tertiary-butyl-phenol and its Derivatives."

Franklin Thomas Kurt. Thesis: "Studies in Fermentation."

Sarah Bertha Tucker. Thesis: "Some Derivatives of Thio-phenamide."

Biology.—Franklin Thomas Kurt. Thesis: "Production of Lactic Acid by certain Bacteria."

Abby May Thompson. Thesis: "Development of the Medusa of Podocoryne."

Sarah Bertha Tucker. Subject: "The Development of Animal Life."

DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree will be conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science will be conferred in accordance with the following regulations:—

1. The degree of Master of Arts may be conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. Said course of study shall be under the full direction of a Committee of the Faculty on Graduate Instruction, to be composed of three permanent members with the addition of the instructor in charge of each department in which the candidate shall pursue work. Evidence of the candidate's proficiency in the approved studies shall be given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the Committee may prescribe. All such tests of proficiency shall be under the direction of the Committee, and they shall report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who shall pass such additional examinations as the

Committee may prescribe, the degree of Master of Arts may be conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts may also be conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations shall hold in the case of non-resident as in the case of resident students. The degree may also be conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate shall have spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science may be conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions that govern in the case of the degree of Master of Arts.

5. A fee of ten dollars shall be required from each graduate student upon promotion to the Master's degree.

In accordance with the above regulations, the Faculty have appointed Professors Atwater, Merrill, and Armstrong permanent members of the Committee on Graduate Instruction, and to them, or to the head of any one of the departments of instruction, may be addressed communications from prospective graduate students.

DEGREES CONFERRED, JUNE, 1895.

At the last Commencement, degrees were conferred as follows:—

THE DEGREE OF B. A. was conferred on:—James Lincoln Bahret, Le Roy Mason Beeman, Clifford Pease Clark, Edward Francis Coffin, Wilmer Evans Coffman, Arthur Beebe Darling, Stephen Brooks Davis, Jr., Frank Willis Doane, James Pendleton Erskine, Edward Justus Gale, Norman Everett Gilbert, Andrew Buchanan White Gillies, William Elithan Greene, William Henry Hayes, Charles Otis Judkins, George Nelson Lapham, Alexander Henry Leo, John Stryker Lull, Albert Barrett Meredith, Hiram Emery Miller, Warren Roberts Neff, Samuel Bowman Opdyke, William

Willet Peck, Daniel Hays Piper, Arthur Henry Scudder, Colbert Searles, Ernest Ketcham Smith, George Benton Smith, Verona J. Smith, Howard Anderson Sutton, Henry Allen Thayer, Edward Lee Thorndike, Joseph King Van Denburg, John Gillen Walsh, Merle Bowman Waltz, Claude Lucas Wilson, William Seaver Woods.

THE DEGREE OF PH. B. was conferred on:—Lula Giralda Adams, Eldred Lewis Manley Barnes, Caroline Chalker Clark, Walter Eli Clark, Mary Eva Cramer, Thomas Jose Hambley, Henry Ingraham Harriman, Franklin Thomas Kurt, Arthur Cleveland Pomeroy, George Hale Ryder, Abby May Thompson, Sarah Bertha Tucker.

THE DEGREE OF B. S. was conferred on:—Samuel LeRoy Ackerly, Frederick Kniffen, Elizabeth Cocks Stocking, Frances Louise Weeks, Maud Eloise Wells.

THE DEGREE OF M. A. on Examination was conferred on:—

John Payson Drake, B. A. Subjects: Biology and Mineralogy.

Arthur Mathews Gates, B. A. Subjects: Latin and Greek. Theses: "De quibusdam apud familiam imperatoriam Christianis;" "De Martiale habitus Romani interprete."

Jonathan Hugh Slater, B. A. Subject: Philosophy. Thesis: "A Comparison of the Ethics of Lotze with the Agnosticism of Spencer."

THE DEGREE OF M. S. on Examination was conferred on:—

Lizzie Chapin Rice Barnes, B. S. Subject: English Literature. Thesis: "The Last Forty Years of Mystery and Miracle Plays in England."

Arthur Peyton Bryant, B. S. Subjects: Chemistry and Physics. Thesis: "The Chemistry of a Dietary."

Arthur Whitmore Smith, B. S. (New Hampshire College of Agriculture). Subject: Physics. Thesis: "The Water Equivalent of a Bomb Calorimeter."

THE DEGREE OF M. A., *honoris causa*, was conferred on:—William Trafton Randall, B. S., (class of 1887), Principal of Chaffee College, Ontario, Cal.

THE DEGREE OF D. D. was conferred on:—Rev. Timothy Prescott Frost, M. A., of Baltimore, Md.; Rev. James Oscar Woodruff, of Binghamton, N. Y.

THE DEGREE OF LL. D. was conferred on:—Hon. Owen Vincent Coffin, Governor of the State of Connecticut.

ALUMNI RECORD.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record when sent by mail is two dollars and twenty-five cents.

A second edition of the Supplement to the Alumni Record, containing an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, and their addresses, was published in August, 1895.

Information in regard to changes of address of Alumni or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Bulletin. All persons who can supply information appropriate to future lists, are urgently requested to communicate the same to Professor F. W. Nicolson.

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CALENDAR.

1895.

Sept. 26, Thursday—First Term began.
Nov. 28–30, Thanksgiving Recess.
Dec. 23, Monday—First Term will close.

1896. CHRISTMAS RECESS.

Jan. 3, Friday—Second Term will begin.
Jan. 30, Thursday—Day of Prayer for Colleges.
Feb. 7–15, Mid-year Examination.
April 1, Wednesday—Second Term will close.

EASTER RECESS.

April 7, Tuesday—Third Term will begin.
April 11, Saturday—Last day for presenting Junior Exhibition Essays.
April 13, Monday—Last day for presenting Olin Prize Essays.
April 13, Monday—Last day for presenting applications for Preliminary and Special Honors.
April 23, Thursday—Junior Exhibition.
May 18, Monday—Last day for presenting Joseph D. Weeks Prize Essays.
June 1, Monday—Senior Examination will commence.
June 4, Thursday—Prize Debate.
June 8, Monday—Annual Examination will commence.
June 16, Tuesday—Last day for presenting Rich Prize Essays.
June 19, Friday—Prize Declamations.
June 21, Sunday morning—Baccalaureate Sermon.
June 21, Sunday evening—University Sermon.
June 22, Monday—Class Day.
June 22, Monday evening—Meeting of the Board of Trustees.
June 23, Tuesday—Business Meeting of the Alumni Association.
June 23, Tuesday—Reunion of Classes of 1846, '71, '81, '86, '89, '93.
June 23, Tuesday—Anniversaries of the Literary Societies.

June 24, The last Wednesday of June—COMMENCEMENT.
June 25, Thursday—Examination of candidates for admission will begin.

VACATION OF FOURTEEN WEEKS.

Sept. 29, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 30, Wednesday—Examination of candidates for admission will begin.
Oct. 1, Thursday—First Term will begin.

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CALENDAR, 1896

JANUARY

S	–	5	12	19	26	
M	–	6	13	20	27	
T	–	7	14	21	28	
W	1	8	15	22	29	
T	2	9	16	23	30	
F	3	10	17	24	31	
S	4	11	18	25	X	

FEBRUARY

S	–	2	9	16	23	
M	–	3	10	17	24	
T	–	4	11	18	25	
W	–	5	12	19	26	
T	–	6	13	20	27	
F	–	7	14	21	28	
S	1	8	15	22	29	

MARCH

S	1	8	15	22	29	
M	2	9	16	23	30	
T	3	10	17	24	31	
W	4	11	18	25	X	
T	5	12	19	26	X	
F	6	13	20	27	X	
S	7	14	21	28	X	

APRIL

S	–	5	12	19	26	
M	–	6	13	20	27	
T	–	7	14	21	28	
W	1	8	15	22	29	
T	2	9	16	23	30	
F	3	10	17	24	X	
S	4	11	18	25	X	

MAY

S	–	3	10	17	24	31
M	–	4	11	18	25	X
T	–	5	12	19	26	X
W	–	6	13	20	27	X
T	–	7	14	21	28	X
F	1	8	15	22	29	X
S	2	9	16	23	30	X

JUNE

S	–	7	14	21	28	
M	1	8	15	22	29	
T	2	9	16	23	30	
W	3	10	17	24	X	
T	4	11	18	25	X	
F	5	12	19	26	X	
S	6	13	20	27	X	

JULY

S	–	5	12	19	26	
M	–	6	13	20	27	
T	–	7	14	21	28	
W	1	8	15	22	29	
T	2	9	16	23	30	
F	3	10	17	24	31	
S	4	11	18	25	X	

AUGUST

S	–	2	9	16	23	30
M	–	3	10	17	24	31
T	–	4	11	18	25	X
W	–	5	12	19	26	X
T	–	6	13	20	27	X
F	–	7	14	21	28	X
S	1	8	15	22	29	X

SEPTEMBER

S	–	6	13	20	27	
M	–	7	14	21	28	
T	1	8	15	22	29	
W	2	9	16	23	30	
T	3	10	17	24	X	
F	4	11	18	25	X	
S	5	12	19	26	X	

OCTOBER

S	–	4	11	18	25	
M	–	5	12	19	26	
T	–	6	13	20	27	
W	–	7	14	21	28	
T	1	8	15	22	29	
F	2	9	16	23	30	
S	3	10	17	24	31	

NOVEMBER

S	1	8	15	22	29	
M	2	9	16	23	30	
T	3	10	17	24	X	
W	4	11	18	25	X	
T	5	12	19	26	X	
F	6	13	20	27	X	
S	7	14	21	28	X	

DECEMBER

S	–	6	13	20	27	
M	–	7	14	21	28	
T	1	8	15	22	29	
W	2	9	16	23	30	
T	3	10	17	24	31	
F	4	11	18	25	X	
S	5	12	19	26	X	

1897

JANUARY

S	–	3	10	17	24	31
M	–	4	11	18	25	X
T	–	5	12	19	26	X
W	–	6	13	20	27	X
T	–	7	14	21	28	X
F	1	8	15	22	29	X
S	2	9	16	23	30	X

FEBRUARY

S	–	7	14	21	28	
M	1	8	15	22	X	
T	2	9	16	23	X	
W	3	10	17	24	X	
T	4	11	18	25	X	
F	5	12	19	26	X	
S	6	13	20	27	X	

MARCH

S	–	7	14	21	28	
M	1	8	15	22	29	
T	2	9	16	23	30	
W	3	10	17	24	31	
T	4	11	18	25	X	
F	5	12	19	26	X	
S	6	13	20	27	X	

APRIL

S	–	4	11	18	25	
M	–	5	12	19	26	
T	–	6	13	20	27	
W	–	7	14	21	28	
T	1	8	15	22	29	
F	2	9	16	23	30	
S	3	10	17	24	X	